# 本科专业人才培养计划

## 综　合　分　册

华中科技大学教务处

二０一五年七月

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# 数学与统计学院

华中科技大学数学与统计学院始建于1953年，经历了由数学教研室、数学系到数学与统计学院的发展历程。在老一辈数学家林少宫、徐利治、陈庆益、黄志远等的带领下，数学与统计学院逐步开始走上了学科建设与发展的艰辛旅途。数学与统计学院现有数学和统计学两个一级学科博士点，前者涵盖了基础数学、计算数学、应用数学、概率论与数理统计和运筹学与控制论五个二级学科博士点；先后建立了数学与应用数学、信息与计算科学、统计学三个本科专业。学院现有在校学生660人，其中本科生426人、硕士生173人、博士生61人。

数学与统计学院现有教职工109人，在编教师95人，其中博士生导师13人，教授22人，副教授40人。教师中具有博士学位者占74%，有“千人计划”1人，杰出青年基金和优秀青年基金获得者各1人，有7人分别获批教育部“长江讲座教授”、“高校青年教师奖”、“新世纪优秀人才支持计划”和“跨世纪优秀人才资助计划”，1人入选人事部“新世纪百千万人才工程” 国家级人选，7人获得国务院政府特殊津贴。数学与统计学院科研力量雄厚，拥有动力系统、分形几何、微分方程理论及其应用、随机分析、数理统计、金融数学、应用泛函分析、微分方程数值解、复杂系统建模与仿真、小波分析与图像处理等研究方向。近五年来，数学与统计学院的学术团队共获科研经费1550多万元，主持科学基金37项，发表SCI收录论文300余篇；出版各类专著、教材30余本，其中2本获“国家十二五规划”教材。

在华中科技大学历届领导的支持下，经过几代人的努力，数学与统计学院在学科建设、科学研究、人才培养等方面取得了长足进步，数学各二级学科得以均衡发展。随着科学技术的日新月异，数学学科正面临着新的机遇和挑战，面对这机遇与挑战，我们热忱欢迎海内外专家学者与我们一起携起手来，共同创造光辉灿烂的明天。

# 数学与应用数学专业本科培养计划

# Undergraduate Program for Specialty in Mathematics and Applied Mathematics

## 一、培养目标

## Ⅰ. Program Objective

培养掌握扎实的数学基本理论和方法，受到科学研究的初步训练，能在教育、科技部门和经济领域从事研究、教学、应用开发研究等工作的高级专门人才。

This program provides a sound grounding in both the fundamental theories and methods of mathematics study. Students will also obtain excellent basic training in mathematics. Our aim is to nurture special talents for careers in science research, teaching, production operations and management.

## 二、基本规格要求

## Ⅱ. Learning outcomes

毕业生应获得以下几方面的知识和能力：

1. 具有扎实的数学基础，获得良好的数学理论和方法的训练；

2. 具有运用数学知识去解决实际问题能力，具有一定的科学研究的能力；

3. 有较强的语言表达能力，掌握资料查询，文献检索及运用现代信息技术获取相关信息的基本方法。

Upon successful completion of the program, students will be able to:

1. Solid grounding and excellent basic training in mathematics;

2. Skills to solve actual problem and ability to do certain scientific research;

3. Skills to express, and to master data query, document retrieval and the basic method of using the modern information technology to obtain relevant information.

## 三、培养特色

## Ⅲ. Program Highlights

培养具有扎实数学基础理论和方法，受到严格的科学思维训练，具备科学研究和解决实际问题能力的复合型人才。

This program aims to produce special talents who have a solild foundation of mathematics, the capacity in building mathematic models and solving practical problems.

## 四、主干学科

## Ⅳ. Main Disciplines

数学 Mathematics、应用数学 Applied Mathematics、概率论与数理统计 Probability and Mathematical statistics

## 五、学制与学位

## Ⅴ. Program Length and Degree

修业年限：四年

Program Length: 4 years

授予学位：理学学士

Degrees Conferred：Bachelor of Science

## 六、学时与学分

## Ⅵ. Credits Hours and Units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：160 学分

Minimum curriculum credits (including courses and practicum): 160 credits

Minimum Credits of Curricular (Comprising course system and intensified internship practical training)：160

其中，专业基础课程、专业核心课程学分不允许用其他课程学分进行学分冲抵和替代。

Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：5 学分。

Minimum Extracurricular Credits: 5 credits.

1. 课程体系学时与学分

Hours/Credits of Course System

| 课程类别 | | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|---|
| 通识教育基础课程 | | 必修 | 688/43 | 29.15 |
| | | 选修 | 160/10 | 6.78 |
| 学科基础课程 | 学科大类基础课程 | 必修 | 776/48.5 | 32.88 |
| | 学科专业基础课程 | 必修 | 152/9.5 | 6.45 |
| 专业课程 | 专业核心课程 | 必修 | 216/13.5 | 9.15 |
| | 专业方向课程 | 选修 | 368/23 | 15.59 |
| 合计 | | | 2360/147.5 | 100 |

| Course Type | | Required /Elective | Hrs/Crs | Percentage (%) |
|---|---|---|---|---|
| General Education Core Curriculum | | Required | 688/43 | 29.15 |
| | | Elective | 160/10 | 6.78 |
| Discipline-related Courses | General | Required | 776/48.5 | 32.88 |
| | Basic Subdisciplinary | Required | 152/9.5 | 6.45 |
| Major-specific Courses | Core | Required | 216/13.5 | 9.15 |
| | Elective | Elective | 368/23 | 15.59 |
| Total | | | 2360/147.5 | 100 |

2. 实践教学环节周数与学分

Practicum Credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 8.0 |
| 公益劳动 | 必修 | 1/0.5 | 4.0 |
| 生产实习（社会实践） | 必修 | 4/2 | 16.0 |
| 软件实习 | 必修 | 2/1 | 8.0 |
| 毕业设计（论文） | 必修 | 16/8 | 64.0 |
| 合　计 | | 25/12.5 | 100 |

| Internship and Practical Training | Required /Elective | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 8.0 |
| On-campus Voluntary Work | Required | 1/0.5 | 4.0 |
| Internship Program (Social Practice) | Required | 4/2 | 16.0 |
| Software Practice | Required | 2/1 | 8.0 |
| Undergraduate Thesis | Required | 16/8 | 64.0 |
| Total | Required | 25/12.5 | 100 |

3. 课外学分

Extracurricular Credits

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 学分 |
|---|---|---|---|---|
| 1 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委评为优秀社会实践队者。 | | 2 |
| 2 | 英语及计算机考试 | 全国大学英语六级考试 | 考试成绩达到学校要求者 | 2 |
| | | 托福考试 | 达 90 分以上者 | 3 |
| | | 雅思考试 | 达 6.5 分以上者 | 3 |
| | | GRE 考试 | 达 1350 分以上者 | 3 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |
| 3 | 竞　　赛 | 校　　级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 省　　级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全　　国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 4 | 论　　文 | 在全国性刊物发表论文 | 每篇论文 | 2~3 |
| 5 | 科　　研 | 视参与科研项目时间与科研能力 | 每项 | 1~3 |

注：参加校体育运动会获第一名、第二名者与校级一等奖等同，获第三名至第五名者与校级二等奖等同，获第六至第八名者与校级三等奖等同。

| No. | Activities | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Activities of Social Practice | Submit report and pass oral defense | | 1 |
| | | Entitled as Activist by the Communist Youth League of HUST or Hubei Province;<br>Membership of the group which is entitled as Excellent Social Practice Group by the Communist Youth League of HUST or Hubei Province | | 2 |
| 2 | Qualifications | CET-6 | Students whose Band-6 exam scores accord our requirements | 2 |
| | | TOEFL | 90 Points or Higher | 3 |
| | | IELTS | 6.5 Points or Higher | 3 |
| | | GRE | 1350 Points or Higher | 3 |
| | | National Computer Rank Examination | Certificate of Band-2 or higher | 2 |
| | | Qualifications for Computer and Software Technology Proficiency | Programmer | 2 |
| | | | Senior Programmer | 3 |
| | | | System Analyst | 4 |

continue

| No. | Activities | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 3 | Competitions | University Level | First prize | 3 |
| | | | Second prize | 2 |
| | | | Third prize | 1 |
| | | Provincial Level | First prize | 4 |
| | | | Second prize | 3 |
| | | | Third prize | 2 |
| | | National Level | First prize | 6 |
| | | | Second prize | 4 |
| | | | Third prize | 3 |
| 4 | Academic Papers | Published in national-level journals | Per piece | 2~3 |
| 5 | Scientific Research | Depending on both the time spent in and ability demonstrated in scientific research project | Each item | 1~3 |

Note: In HUST Sports Meeting, the first and the second prize, the third to the fifth prize, and the sixth prize to the eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## Ⅶ. Main Courses

数学分析Mathematical Analysis、高等代数与解析几何Higher Algebra and Analytical Geometry、大学物理Physics、计算机及程序设计基础(C++)Advanced Programming Language C++、常微分方程Ordinary Differential Equations、复变函数Complex Analysis、实变函数Real Analysis、泛函分析Functional Analysis、偏微分方程Partial Differential Equations、概率论与数理统计Probability and Mathematics Statistics、拓扑学Topology、近世代数Modern Algebra、微分几何Differential Geometry、运筹学Operation Research、随机过程Stochastic Processes

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Practicum Module (experiments included)

软件实习 Software Practice、毕业设计（论文）Undergraduate Thesis

## 九、教学进程计划表

## Ⅸ. Course Schedule

院（系）：数学与统计学院　　专业：数学与应用数学

School (Department): School of Mathematics and Statics　　Specialty: Mathematics and Applied Mathematics

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必　修 Required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必　修 Required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必　修 Required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必　修 Required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必 修 Required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必 修 Required | 0100741 | 形势与政策 Situation and Policy | 32 | 2 | 14 | | | 1-6 |
| | 必 修 Required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | 必 修 Required | 0508453 | 综合英语（一） Comprehensive English （Ⅰ） | 56 | 3.5 | | | | 1 |
| | 必 修 Required | 0508463 | 综合英语（二） Comprehensive English （Ⅱ） | 56 | 3.5 | | | | 2 |
| | 必 修 Required | 0700048 | 大学物理（一） Physics（Ⅰ） | 64 | 4 | | | | 2 |
| | 必 修 Required | 0700049 | 大学物理（二） Physics（Ⅱ） | 64 | 4 | | | | 3 |
| | 必 修 Required | 0706891 | 物理实验（一） Physics Experiments（Ⅰ） | 32 | 1 | | 32 | | 2 |
| | 必 修 Required | 0706901 | 物理实验（二） Physics Experiments（Ⅱ） | 24 | 1 | | 24 | | 3 |
| | 必 修 Required | 0400111 | 大学体育（一） Physical Education（Ⅰ） | 32 | 1 | | | | 1 |
| | 必 修 Required | 0400121 | 大学体育（二） Physical Education（Ⅱ） | 32 | 1 | | | | 2 |
| | 必 修 Required | 0400131 | 大学体育（三） Physical Education（Ⅲ） | 32 | 1 | | | | 3 |
| | 必 修 Required | 0400141 | 大学体育（四） Physical Education（Ⅳ） | 32 | 1 | | | | 4 |
| | 必 修 Required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 7 |
| | 必 修 Required | 0827781 | 计算机及程序设计基础(C++) Fundamentals of Computer Programming (C++) | 48 | 3 | | | 8 | 2 |
| | 必 修 Required | 0811163 | 计算机网络技术与应用 The Application and Technology of Computer Network | 32 | 2 | | | 8 | 3 |
| | | | 人文社科类选修课程 Electives in Humanities and Social Science | 160 | 10 | | | | |
| | 必 修 Required | 0400022 | 学科（专业）概论 Introduction to Discipline (Specialty) | 16 | 1 | | | | 1 |
| | 必 修 Required | 0703661 | 数学分析（一） Mathematical Analysis（Ⅰ） | 80 | 5 | | | | 1 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 学科基础课程·学科大类基础 Discipline-related General Courses | 必 修 Required | 0703672 | 数学分析（二） Mathematical Analysis (2) | 88 | 5.5 | | | | 2 |
| | 必 修 Required | 0703682 | 数学分析（三） Mathematical Analysis (3) | 88 | 5.5 | | | | 3 |
| | 必 修 Required | 0703741 | 高等代数与解析几何(一) Higher Algebra and Analytical Geometry | 80 | 5 | | | | 1 |
| | 必 修 Required | 0703752 | 高等代数与解析几何(二) Higher Algebra and Analytical Geometry | 88 | 5.5 | | | | 2 |
| | 必 修 Required | 0700204 | 常微分方程 Ordinary Differential Equations | 72 | 4.5 | | | | 3 |
| | 必 修 Required | 0703623 | 复变函数（一） Complex Analysis (Ⅰ) | 72 | 4.5 | | | | 4 |
| | 必 修 Required | 0700214 | 概率论 Probability Theory | 72 | 4.5 | | | | 4 |
| | 必 修 Required | 0700255 | 实变函数 Real Analysis | 72 | 4.5 | | | | 4 |
| | 必 修 Required | 0700315 | 泛函分析 Functional Analysis | 72 | 4.5 | | | | 5 |
| 专业核心课程 Major-specific Core Courses | 必 修 Required | 0700414 | 拓扑学 Topology | 64 | 4 | | | | 5 |
| | 必 修 Required | 0703424 | 近世代数 Modern Algebra | 64 | 4 | | | | 4 |
| | 必 修 Required | 0703403 | 偏微分方程 Partial Differential Equations | 64 | 4 | | | | 5 |
| | 必 修 Required | 0700375 | 微分几何 Differential Geometry | 64 | 4 | | | | 6 |
| 专业课程·专业选修课程 Major-specific Electives | | | 专业方向选修课程 Electives in Specialty | 456 | 28.5 | | | | |
| | 选 修 Elective | 0700235 | 数值分析 Numerical Analysis | 56 | 3.5 | | | 8 | 4 |
| | 选 修 Elective | 0700274 | 数理统计 Mathematical Statistics | 64 | 4 | | | | 5 |
| | 选 修 Elective | 0700185 | 离散数学 Discrete Mathematics | 48 | 3 | | | | 5 |
| | 选 修 Elective | 0706481 | 信息论基础 Elementary Information Theory | 48 | 3 | | | 8 | 5 |
| | 选 修 Elective | 0700245 | 运筹学 Operation Research | 56 | 3.5 | | | | 6 |
| | 选 修 Elective | 0800591 | 数据结构与算法 Data Structures and Algorithms | 48 | 3 | | | 8 | 6 |
| | 选 修 Elective | 0700383 | 微分方程数值解 Numerical Methods for Differential Equations | 64 | 4 | | | 8 | 6 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业课程·专业选修课程 Major-specific Electives | 选 修 Elective | 0800532 | 控制论基础 Foundation of Control Theory | 40 | 2.5 | | | | 6 |
| | 选 修 Elective | 0703542 | 非参数统计 Non-parametric Statistics | 64 | 4 | | | | 6 |
| | 选 修 Elective | 0700306 | 随机过程 Stochastic Processes | 64 | | | | 8 | 6 |
| | 选 修 Elective | 0703641 | 泛函分析选讲 Selected Topics in Functional Analysis | 40 | 2.5 | | | | 6 |
| | 选 修 Elective | 0707391 | 数学建模与数学实验 Mathematical Modeling and Experiments | 56 | 3.5 | | | 16 | 7 |
| | 选 修 Elective | 0700261 | 最优化方法 Optimization Method | 40 | 2.5 | | | 8 | 7 |
| | 选 修 Elective | 0707481 | 调和分析 Harmonic Analysis | 48 | 3 | | | | 7 |
| | 选 修 Elective | 0707491 | 测度论 Measure Theory | 48 | 3 | | | | 7 |
| | 选 修 Elective | 0706911 | 分形几何 Fractal geometry | 48 | 3 | | | | 7 |
| | 选 修 Elective | 0702592 | 数论 Number theory | 48 | 3 | | | | 7 |
| | 选 修 Elective | 0707421 | 代数几何 Algebraic geometry | 48 | 3 | | | | 7 |
| 实践环节 practical training items | 必 修 Required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必 修 Required | 1300024 | 公益劳动 On-campus Voluntary Work | 1w | 0.5 | | | | 6 |
| | 必 修 Required | 1327694 | 生产实习 Internship Program | 4w | 2 | | | | 6 |
| | 必 修 Required | 1300463 | 软件实习 Software Practice | 2w | 1 | | | | 7 |
| | 必 修 Required | 1300066 | 毕业设计（论文） Undergraduate Thesis | 16w | 8 | | | | 8 |

# 信息与计算科学专业本科培养计划

# Undergraduate Program in Information and Computing Science

## 一、培养目标

### Ⅰ. Program Objectives

本专业培养具有扎实数学的基础、良好的数学思维能力、较强的创新意识，掌握信息与计算科学的基本理论和方法，受到科学研究的初步训练，有潜力成为信息与计算科学领域的数学家。

The undergraduate program in Information and Computing Science is aimed at producing students with a solid grasp of mathematics, good mathematical thinking ability, and strong innovation consciousness. The students should gain a mastery of the fundamental theories and methods in information and computing science, and receive basic training in scientific research. The students of this program are expected to be mathematicians in information and computing science.

## 二、基本规格要求

### Ⅱ. Learning Outcomes

本专业毕业生应获得以下几方面的知识和能力：

1. 具有扎实的数学基础，掌握信息与计算科学的基本理论和基本知识；

2. 能熟练地使用计算机,(包括常用语言工具及一些专用软件)。具有基本的算法分析,设计能力和较强的编程能力；

3. 对信息、计算科学理论、技术及应用的新发展有所了解，能运用所学的理论、方法解决某些科研或生产中的实际问题；

4. 掌握一门外语，能顺利阅读本专业的外文资料。

Upon successful completion of the program, students are supposed to have：

1. Solid grounding in mathematics, fundamental theories and knowledge in information and computing science;

2. Mastery of common computer language tools and necessary specialized software, Skills in algorithm analysis, design and programming;

3. Knowledge of the latest development of theories, technologies and application in information and computing science, Skills to employ the theories and knowledge in real-world problem solving;

4. Skills to solve real-world problems with the aid of computers, Mastery of a foreign language and the ability to employ technical resources in foreign text.

## 三、培养特色

### Ⅲ. Program Highlights

培养具有坚实的信息与计算科学的理论与应用基础，并能运用计算机解决实际问题的高级专门人才。

The highlight of this program is to produce special talents with a solid foundation in the fundamentals of theory and application of information and computing science, and the capacity in solving practical problems with computer.

## 四、主干学科

## Ⅳ. Main Discipline

数学 Mathematics、信息科学 Information Science、计算机科学与技术 Computer Science & Technology

## 五、学制与学位

## Ⅴ. Program Length and Degree

修业年限：四年

Program Length: 4 years

授予学位：理学学士

Degrees Conferred：Bachelor of Science

## 六、学时与学分

## Ⅵ. Credits Hours and Units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：160 学分。其中，专业基础课程、专业核心课程学分不允许用其他课程学分进行学分冲抵和替代。

Minimum curriculum credits (including courses and practicum): 160 credits. Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：5 学分

Minimum Extracurricular Credits：5 credits

1. 课程体系学时与学分

Course Credits Hours and Units

| 课程类别 | | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|---|
| 通识教育基础课程 | | 必修 | 688/43 | 29.15 |
| | | 选修 | 160/10 | 6.78 |
| 学科（大类）基础课程 | | 必修 | 800/50 | 33.90 |
| 专业课程 | 专业核心课程 | 必修 | 256/16 | 10.85 |
| | 专业选修课程 | 选修 | 456/28.5 | 19.32 |
| 合计 | | | 2360/147.5 | 100 |

| Course Type | | Course Nature | Hrs/Crs | Percentage (%) |
|---|---|---|---|---|
| General Education Core Curriculum | | Required | 688/43 | 29.15 |
| | | Elective | 160/10 | 6.78 |
| Discipline-related General Courses | | Required | 800/50 | 33.90 |
| Major-specific Courses | Core | Required | 256/16 | 10.85 |
| | Elective | Elective | 456/28.5 | 19.32 |
| Total | | | 2360/147.5 | 100 |

2. 集中性实践教学环节周数与学分

Practicum Credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 8.0 |
| 公益劳动 | 必修 | 1/0.5 | 4.0 |
| 生产实习（社会实践） | 必修 | 4/2 | 16.0 |
| 软件实习 | 必修 | 2/1 | 8.0 |
| 毕业设计（论文） | 必修 | 16/8 | 64.0 |
| 合计 | | 25/12.5 | 100 |

| Course Title | Courses Nature | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 8.0 |
| On-campus Voluntary Work | Required | 1/0.5 | 4.0 |
| Engineering Internship (Social Practice) | Required | 4/2 | 16.0 |
| Software Practice | Required | 2/1 | 8.0 |
| Undergraduate Thesis | Required | 16/8 | 64.0 |
| Total | | 25/12.5 | 100 |

3. 课外学分

Extracurricular Credits

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 学分 |
|---|---|---|---|---|
| 1 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委评为优秀社会实践队者。 | | 2 |
| 2 | 英语及计算机考试 | 全国大学英语六级考试 | 考试成绩达到学校要求者 | 2 |
| | | 托福考试 | 达90分以上者 | 3 |
| | | 雅思考试 | 达6.5分以上者 | 3 |
| | | GRE考试 | 达1350分以上者 | 3 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |
| 3 | 竞　　赛 | 校　　级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 省　　级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全　　国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 4 | 论　　文 | 在全国性刊物发表论文 | 每篇论文 | 2~3 |
| 5 | 科　　研 | 视参与科研项目时间与科研能力 | 每项 | 1~3 |

注：参加校体育运动会获第一名、第二名者与校级一等奖等同，获第三名至第五名者与校级二等奖等同，获第六至第八名者与校级三等奖等同。

| No. | Activities | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Community Engagement | Submitting report and passing oral defense | | 1 |
| | | Individuals awarded “Active Participant” / Teams awarded “Excellent Performance” by HUST or Hubei Youth League Committee | | 2 |
| 2 | Qualifications | CET-6 | Certificate | 2 |
| | | TOEFL | 90 Points or Higher | 3 |
| | | IELTS | 6.5 Points or Higher | 3 |
| | | GRE | 1350 Points or Higher | 3 |
| | | National Computer Rank Examination | Certificate (Grade 1 / 2) | 2 |
| | | Qualifications for Computer and Software Technology Proficiency | Programmer | 2 |
| | | | Senior Programmer | 3 |
| | | | System Analyst | 4 |
| 3 | Competitions | University Level | First Prize | 3 |
| | | | Second Prize | 2 |
| | | | Third Prize | 1 |

continue

| No. | Activities | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 3 | Competitions | Provincial Level | First Prize | 4 |
| | | | Second Prize | 3 |
| | | | Third Prize | 2 |
| | | National Level | First Prize | 6 |
| | | | Second Prize | 4 |
| | | | Third Prize | 3 |
| 4 | Academic Papers | Published in national-level journals | Each paper | 2~3 |
| 5 | Research Programs | Contribution and research capability | Each program | 1~3 |

Note: In HUST Sports Meeting, the first and the second prize, the third to the fifth prize and the sixth prize to the eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## Ⅶ. Main Courses

数学分析Mathematical Analysis、高等代数与解析几何Higher Algebra and Analytical Geometry、大学物理Physics、常微分方程Ordinary Differential Equations、偏微分方程Partial Differential Equations、复变函数Complex Analysis、实变函数Functions of A Real Variable、泛函分析Functional Analysis、概率论Probability Theory、信息论基础Elementary Information Theory、数值逼近Numerical Approximation、数值代数Numerical Algebra、微分方程数值解Numerical Methods for Differential Equations

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Practicum Module (experiments included)

软件实习 Software Practice、毕业设计（论文）Undergraduate Thesis

## 九、教学进程计划表

## IX. Course Schedule

院（系）：数学与统计学院　　专业：信息与计算科学

School (Department): School of Mathematics and Statistics　　Specialty: Information and Computing Science

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必修 Required | 0301901 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必修 Required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必修 Required | 0100931 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必修 Required | 0100881 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必修 Required | 0100321 | 毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必修 Required | 0100741 | 形势与政策 Current Affairs and Policy | 32 | 2 | 14 | | | 1-6 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必 修 Required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | 必 修 Required | 0512351 | 综合英语（一） English （Ⅰ） | 56 | 3.5 | | | | 1 |
| | 必 修 Required | 0512361 | 综合英语（二） English （Ⅱ） | 56 | 3.5 | | | | 2 |
| | 必 修 Required | 0700048 | 大学物理（一） Physics（Ⅰ） | 64 | 4 | | | | 2 |
| | 必 修 Required | 0700049 | 大学物理（二） Physics（Ⅱ） | 64 | 4 | | | | 3 |
| | 必 修 Required | 0700041 | 物理实验（一） Physics Experiments（Ⅰ） | 32 | 1 | | 32 | | 2 |
| | 必 修 Required | 0700042 | 物理实验（二） Physics Experiments（Ⅱ） | 24 | 1 | | 24 | | 3 |
| | 必 修 Required | 0400111 | 大学体育（一） Physical Education（Ⅰ） | 32 | 1 | | | | 1 |
| | 必 修 Required | 0400121 | 大学体育（二） Physical Education（Ⅱ） | 32 | 1 | | | | 2 |
| | 必 修 Required | 0400131 | 大学体育（三） Physical Education（Ⅲ） | 32 | 1 | | | | 3 |
| | 必 修 Required | 0400141 | 大学体育（四） Physical Education（Ⅳ） | 32 | 1 | | | | 4 |
| | 必 修 Required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 7 |
| | 必 修 Required | 0812313 | 计算机与程序设计基础（C++） Fundamentals of Computer & Programming (C++) | 48 | 3 | | | 8 | 1 |
| | 必 修 Required | 0811161 | 计算机网络技术与应用 The Application and Technology of Computer Network | 32 | 2 | | | 8 | 3 |
| | | | 人文社科类选修课程 Electives in Humanities and Social Science | 160 | 10 | | | | |
| 学科(大类)基础课程 Discipline-related General Courses | 必 修 Required | 0400022 | 学科（专业）概论 Introduction to Discipline (Specialty) | 16 | 1 | | | | 1 |
| | 必 修 Required | 0703661 | 数学分析（一） Mathematical Analysis（Ⅰ） | 80 | 5 | | | | 1 |
| | 必 修 Required | 0703672 | 数学分析（二） Mathematical Analysis（Ⅱ） | 88 | 5.5 | | | | 2 |
| | 必 修 Required | 0703682 | 数学分析（三） Mathematical Analysis（Ⅲ） | 88 | 5.5 | | | | 3 |
| | 必 修 Required | 0703741 | 高等代数与解析几何(一) Higher Algebra and Analytical Geometry | 80 | 5 | | | | 1 |
| | 必 修 Required | 0703752 | 高等代数与解析几何(二) Higher Algebra and Analytical Geometry | 88 | 5.5 | | | | 2 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 学科(大类)基础课程 Discipline-related General Courses | 必 修 Required | 0700204 | 常微分方程 Ordinary Differential Equations | 72 | 4.5 | | | | 3 |
| | 必 修 Required | 0703623 | 复变函数（一） Complex Analysis ( I ) | 72 | 4.5 | | | | 4 |
| | 必 修 Required | 0700214 | 概率论 Probability Theory | 72 | 4.5 | | | | 4 |
| | 必 修 Required | 0700255 | 实变函数 Real Analysis | 72 | 4.5 | | | | 4 |
| | 必 修 Required | 0700315 | 泛函分析 Functional Analysis | 72 | 4.5 | | | | 5 |
| 专业核心课程 Major-specific Core Courses | 必 修 Required | 0703403 | 偏微分方程 Partial Differential Equations | 64 | 4 | | | | 5 |
| | 必 修 Required | 0703393 | 数值逼近 Numerical Approximation | 64 | 4 | | | 8 | 4 |
| | 必 修 Required | 0701964 | 数值代数 Numerical Algebra | 64 | 4 | | | 8 | 5 |
| | 必 修 Required | 0700383 | 微分方程数值解 Numerical Methods for Differential Equations | 64 | 4 | | | 8 | 6 |
| 专业选修课程 Major-specific Electives | | | 专业方向选修课程 Electives in Specialty | 456 | 28.5 | | | | |
| | 选 修 Elective | 0703424 | 近世代数 Modern Algebra | 64 | 4 | | | | 4 |
| | 选 修 Elective | 0706481 | 信息论基础 Elementary Information Theory | 48 | 3 | | | 8 | 5 |
| | 选 修 Elective | 0700185 | 离散数学 Discrete Mathematics | 48 | 3 | | | | 5 |
| | 选 修 Elective | 0700274 | 数理统计 Mathematical Statistics | 64 | 4 | | | | 5 |
| | 选 修 Elective | 0703414 | 并行计算 Parallel Computation | 48 | 3 | | | 8 | 6 |
| | 选 修 Elective | 0800591 | 数据结构与算法 Data Structures and Algorithms | 48 | 3 | | | 8 | 6 |
| | 选 修 Elective | 0800532 | 控制论基础 The Foundation of Control Theory | 40 | 2.5 | | | | 6 |
| | 选 修 Elective | 0835902 | 有限元方法 Finite Element Method | 40 | 2.5 | | | 8 | 6 |
| | 选 修 Elective | 0700245 | 运筹学 Operation Research | 56 | 3.5 | | | | 6 |
| | 选 修 Elective | 0700306 | 随机过程 Stochastic Processes | 64 | 4 | | | 8 | 6 |
| | 选 修 Elective | 0700375 | 微分几何 Differential Geometry | 64 | 4 | | | | 6 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业选修课程 Major-specific Electives | 选 修 Elective | 0700261 | 最优化方法 Optimization Method | 40 | 2.5 | | | 8 | 7 |
| | 选 修 Elective | 0703461 | 贝叶斯统计 Bays Statistics | 40 | 2.5 | | | | 7 |
| | 选 修 Elective | 0703641 | 泛函分析选讲 Selected Topics in Functional Analysis | 40 | 2.5 | | | | 7 |
| | 选 修 Elective | 0703721 | 可靠性理论与方法 Reliability Theory | 40 | 2.5 | | | 12 | 7 |
| | 选 修 Elective | 0707051 | 刚性问题数值方法 Numerical Methods for Stiff Problems | 40 | 2.5 | | | 8 | 7 |
| | 选 修 Elective | 0706921 | 高等数值方法 Advanced Numerical Methods | 48 | 3 | | | | 7 |
| | 选 修 Elective | 0716841 | 统计计算与统计软件 Statistical Computation and Statistical Software | 40 | 2.5 | | | | 7 |
| | 选 修 Elective | 0800162 | 数字信号处理 Digital signal processing | 40 | 2.5 | | | 8 | 7 |
| | 选 修 Elective | 0800243 | 数字图像处理 Digital Image Processing | 40 | 2.5 | | | 8 | 7 |
| | 选 修 Elective | 0707391 | 数学建模与数学实验 Mathematical Modeling and Experiments | 56 | 3.5 | | | 16 | 7 |
| | 选 修 Elective | 0806492 | 数据挖掘 Data Mining | 40 | 2.5 | | | 8 | 7 |
| 实践环节 Practicum Module | 必 修 Required | 1300012 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必 修 Required | 1300021 | 公益劳动 Laboring for Public Benefit | 1w | 0.5 | | | | 6 |
| | 必 修 Required | 1300084 | 生产实习 Engineering Internship | 4w | 2 | | | | 6 |
| | 必 修 Required | 1300462 | 软件实习 Software Practice | 2w | 1 | | | | 7 |
| | 必 修 Required | 1300066 | 毕业设计（论文） Undergraduate Thesis | 16w | 8 | | | | 8 |

# 统计学专业本科培养计划

# Undergraduate Program for Specialty in Statistics

## 一、培养目标

## Ⅰ. Program Objectives

培养具有良好的数学素养，掌握统计学的基本理论和方法，能熟练地运用计算机分析数据，能在企业、事业单位和经济、管理部门从事统计调查、统计信息管理、数据分析等开发、应用和管理工作，或在科研、教育部门从事研究和教学工作的高级专门人才。

The program is designed to build a solid background for students in mathematics and statistics , offers students a variety of courses, including fundamental theory and methodology of mathematics, statistics and economic statistics, computer data processing and analysis, and statistical programming. The program is aimed to prepare students for careers in business, industry, management science, economic finance, science research, education and others.

## 二、基本规格要求

## Ⅱ. Learning Outcomes

毕业生应获得以下几方面的知识和能力：

1. 具有扎实的数学基础，受到比较严格的科学思维训练；

2. 掌握统计学的基本理论、基本知识、基本方法和计算机操作技能；具有采集数据、设计调查问卷和处理调查数据的基本能力；了解统计学理论与方法的发展动态及其应用前景；

3. 了解与社会经济统计、医药卫生统计、生物统计或工业统计等有关的自然科学、社会科学、工程技术某一领域的基本知识，具有应用统计学理论分析、解决该领域实际问题的初步能力；

4.掌握资料查询、文献检索及运用现代信息技术获取相关信息的基本方法；具有一定的科学研究和实际工作能力；

5. 掌握一门外语，能顺利阅读本专业的外文资料。

As a student of this course, you are supposed to have：

1. Solid grounding and well training in mathematics;

2. The knowledge in fundamental theories and methods of statistics, and the ability to program and process data with computer;

3. The basic knowledge related to one of the social statistics, hygienic statistics biological statistics and industrial statistics;

4. The ability of science research and solving actual problems;

6. Mastery of a foreign language and the ability to employ technical resources documents in foreign language.

## 三、培养特色

## Ⅲ. Program Highlights

培养具有扎实的统计理论与专业基础，并能运用所学专业知识和统计软件解决实际问题的统计专业人才。

This program aims to nurture talents in statistics with statistics theory and specialized foundation. The graduates can use specialized knowledge and statistics software to solve practical problems.

## 四、主干学科

## Ⅴ. Academic Discipline

数学 Mathematics、统计学 Statistics

## 五、学制与学位

## Ⅲ. Program Length and Degree

修业年限：四年

Program Length：4 years

授予学位：理学学士

Degrees Conferred：Bachelor of Science

## 六、学时与学分

## Ⅳ. Credits Hours and Units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：160

Minimum curriculum credits (including courses and practicum): 160 credits

其中，专业基础课程、专业核心课程学分不允许用其他课程学分进行学分冲抵和替代。

Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：5 学分

Minimum Extracurricular Credits: 5 credits

1. 课程体系学时与学分

Course Credits Hours and Units

| 课程类别 | | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|---|
| 通识教育基础课程 | | 必修 | 688/43 | 29.15 |
| | | 选修 | 160/10 | 6.78 |
| 学科大类基础课程 | | 必修 | 800/50 | 33.90 |
| 专业课程 | 专业核心课程 | 必修 | 256/16 | 10.85 |
| | 专业方向课程 | 选修 | 456/28.5 | 19.32 |
| 合计 | | | 2360/147.5 | 100 |

| Course Type | | Course Nature | Hrs/Crs | Percentage (%) |
|---|---|---|---|---|
| General Education Core Curriculum | | Required | 688/43 | 29.15 |
| | | Elective | 160/10 | 6.78 |
| General | | Required | 800/50 | 33.90 |
| Major-specific Courses | Core | Required | 256/16 | 10.85 |
| | Elective | Elective | 456/28.5 | 19.32 |
| Total | | | 2360/147.5 | 100 |

2. 集中性实践教学环节周数与学分

Practicum Credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 8.0 |
| 公益劳动 | 必修 | 1/0.5 | 4.0 |
| 生产实习（社会实践） | 必修 | 4/2 | 16.0 |
| 软件实习 | 必修 | 2/1 | 8.0 |
| 毕业设计（论文） | 必修 | 16/8 | 64.0 |
| 合计 | | 25/12.5 | 100 |

| Course Title | Courses Nature | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 8.0 |
| On -campus Voluntary Work | Required | 1/0.5 | 4.0 |
| Engineering Internship (Social Practice) | Required | 4/2 | 16.0 |
| Software Practice | Required | 2/1 | 8.0 |
| Undergraduate Thesis | Required | 16/8 | 64.0 |
| Total | | 25/12.5 | 100 |

3. 课外学分

Extracurricular Credits

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 学分 |
|---|---|---|---|---|
| 1 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委评为优秀社会实践队者。 | | 2 |
| 2 | 英语及计算机考试 | 全国大学英语六级考试 | 考试成绩达到学校要求者 | 2 |
| | | 托福考试 | 达 90 分以上者 | 3 |
| | | 雅思考试 | 达 6.5 分以上者 | 3 |
| | | GRE 考试 | 达 1350 分以上者 | 3 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |
| 3 | 竞　　赛 | 校　　级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 省　　级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全　　国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 4 | 论　　文 | 在全国性刊物发表论文 | 每篇论文 | 2~3 |
| 5 | 科　　研 | 视参与科研项目时间与科研能力 | 每项 | 1~3 |

注：参加校体育运动会获第一名、第二名者与校级一等奖等同，获第三名至第五名者与校级二等奖等同，获第六至第八名者与校级三等奖等同。

| No. | Activities | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Community Engagement | Submitting a report and passing the oral defense | | 1 |
| | | Individuals awarded “Active Participant” / Teams awarded “Excellent Performance” by HUST or Hubei Youth League Committee | | 2 |
| 2 | Examinations in English and Computer | CET-6 | Students whose Band-6 exam scores accord our requirements | 2 |
| | | TOEFL | 90 Points or Higher | 3 |
| | | IELTS | 6.5 Points or Higher | 3 |
| | | GRE | 1350 Points or Higher | 3 |
| | | National Computer Rank Examination | Win certificate of Band-2 or higher | 2 |

continue

| No. | Activities | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| | | National Computer Software Qualification | Win certificate of programmer | 2 |
| | | | Win certificate of Advanced Programmer | 3 |
| | | | Win certificate of System Analyst | 4 |
| 3 | Competitions | University Level | Win first prize | 3 |
| | | | Win second prize | 2 |
| | | | Win third prize | 1 |
| | | Provincial Level | Win first prize | 4 |
| | | | Win second prize | 3 |
| | | | Win third prize | 2 |
| | | National Level | Win first prize | 6 |
| | | | Win second prize | 4 |
| | | | Win third prize | 3 |
| 4 | Thesis | Those whose thesis appears in national publications | Per piece | 2~3 |
| 5 | Scientific Research | Depending on both the time spent in and ability demonstrated in scientific research project | Each item | 1~3 |

Note: In HUST Sports Meeting, the first and the second prize, the third to the fifth prize, and the sixth prize to the eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## Ⅶ. Main Courses

数学分析Mathematical Analysis、高等代数与解析几何Higher Algebra and Analytical Geometry、大学物理Physics、常微分方程Ordinary Differential Equations、复变函数Complex Analysis、实变函数Real Analysis、泛函分析Functional Analysis、概率论Probability Theory、数理统计Mathematical Statistic、随机过程Stochastic Processes.

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Practicum Module (experiments included)

软件实习 Software Practice、毕业设计（论文）Undergraduate Thesis

## 九、教学进程计划表

## Ⅸ. Table of Teaching Schedule

院（系）：数学与统计学院　　专业：统计学

School (Department): School of Mathematics and Statistics　　Specialty: Statistics

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必　修 Required | 0301901 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必　修 Required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必　修 Required | 0100931 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必 修 Required | 0100881 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必 修 Required | 0100321 | 毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必 修 Required | 0100741 | 形势与政策 Current Affairs and Policy | 32 | 2 | 14 | | | 1-6 |
| | 必 修 Required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | 必 修 Required | 0512351 | 综合英语（一） English （Ⅰ） | 56 | 3.5 | | | | 1 |
| | 必 修 Required | 0512361 | 综合英语（二） English （Ⅱ） | 56 | 3.5 | | | | 2 |
| | 必 修 Required | 0700048 | 大学物理（一） Physics（Ⅰ） | 64 | 4 | | | | 2 |
| | 必 修 Required | 0700049 | 大学物理（二） Physics（Ⅱ） | 64 | 4 | | | | 3 |
| | 必 修 Required | 0700041 | 物理实验（一） Physics Experiments（Ⅰ） | 32 | 1 | | 32 | | 2 |
| | 必 修 Required | 0700042 | 物理实验（二） Physics Experiments（Ⅱ） | 24 | 1 | | 24 | | 3 |
| | 必 修 Required | 0400111 | 大学体育（一） Physical Education（Ⅰ） | 32 | 1 | | | | 1 |
| | 必 修 Required | 0400121 | 大学体育（二） Physical Education（Ⅱ） | 32 | 1 | | | | 2 |
| | 必 修 Required | 0400131 | 大学体育（三） Physical Education（Ⅲ） | 32 | 1 | | | | 3 |
| | 必 修 Required | 0400141 | 大学体育（四） Physical Education（Ⅳ） | 32 | 1 | | | | 4 |
| | 必 修 Required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 7 |
| | 必 修 Required | 0812313 | 计算机与程序设计基础（C++） Fundamentals of Computer & Programming (C++) | 48 | 3 | | | 8 | 1 |
| | 必 修 Required | 0808422 | 计算机网络技术与应用 The Application and Technology of Computer Network | 32 | 2 | | | 8 | 3 |
| | | | 人文社科类选修课程 Electives in Humanities and Social Science | 160 | 10 | | | | |
| | 必 修 Required | 0400022 | 学科（专业）概论 Introduction to Discipline (Specialty) | 16 | 1 | | | | 1 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 学科大类基础课程 Discipline-related General Courses | 必 修 Required | 0703661 | 数学分析（一） Mathematical Analysis (Ⅰ) | 80 | 5 | | | | 1 |
| | 必 修 Required | 0703672 | 数学分析（二） Mathematical Analysis (2) | 88 | 5.5 | | | | 2 |
| | 必 修 Required | 0703682 | 数学分析（三） Mathematical Analysis (3) | 88 | 5.5 | | | | 3 |
| | 必 修 Required | 0703741 | 高等代数与解析几何(一) Higher Algebra and Analytical Geometry | 80 | 5 | | | | 1 |
| | 必 修 Required | 0703752 | 高等代数与解析几何(二) Higher Algebra and Analytical Geometry | 88 | 5.5 | | | | 2 |
| | 必 修 Required | 0700204 | 常微分方程 Ordinary Differential Equations | 72 | 4.5 | | | | 3 |
| | 必 修 Required | 0703623 | 复变函数（一） Complex Analysis (Ⅰ) | 72 | 4.5 | | | | 4 |
| | 必 修 Required | 0700214 | 概率论 Probability Theory | 72 | 4.5 | | | | 4 |
| | 必 修 Required | 0700255 | 实变函数 Real Analysis | 72 | 4.5 | | | | 4 |
| | 必 修 Required | 0700315 | 泛函分析 Functional Analysis | 72 | 4.5 | | | | 5 |
| 专业核心课程 Major-specific Core Courses | 必 修 Required | 0700274 | 数理统计 Mathematical Statistics | 64 | 4 | | | | 5 |
| | 必 修 Required | 0703403 | 偏微分方程 Partial Differential Equations | 64 | 4 | | | | 5 |
| | 必 修 Required | 0703542 | 非参数统计 Non-parametric statistics | 64 | 4 | | | | 6 |
| | 必 修 Required | 0700306 | 随机过程 Stochastic Processes | 64 | 4 | | | 8 | 6 |
| 专业方向课程 Major-specific Electives | | | 专业方向选修课程 Electives in Specialty | 456 | 28.5 | | | | |
| | 选 修 Elective | 0700235 | 数值分析 Numerical Analysis | 56 | 3.5 | | | 8 | 4 |
| | 选 修 Elective | 0700185 | 离散数学 Discrete Mathematics | 48 | 3 | | | | 5 |
| | 选 修 Elective | 0703432 | 抽样调查 Sampling Techniques | 48 | 3 | | | 8 | 5 |
| | 选 修 Elective | 0706481 | 信息论基础 Elementary Information Theory | 48 | 3 | | | 8 | 5 |
| | 选 修 Elective | 0700293 | 多元统计分析 Multivariate Statistical Analysis | 48 | 3 | | | 8 | 6 |
| | 选 修 Elective | 0701771 | 时间序列分析 Time Series Analysis | 48 | 3 | | | 8 | 6 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业方向课程 Major-specific Electives | 选 修 Elective | 0700245 | 运筹学 Operation Theory | 56 | 3.5 | | | | 6 |
| | 选 修 Elective | 0700383 | 微分方程数值解 Numerical Methods for Differential Equations | 64 | 4 | | | 8 | 6 |
| | 选 修 Elective | 0800591 | 数据结构与算法 Data Structures and Algorithms | 48 | 3 | | | 8 | 6 |
| | 选 修 Elective | 0804103 | 数学建模与数学实验 Mathematical Modeling and Experiments | 56 | 3.5 | | | 16 | 7 |
| | 选 修 Elective | 0702151 | 实用回归分析 Applied Regression Analysis | 40 | 2.5 | | | 8 | 7 |
| | 选 修 Elective | 0700261 | 最优化方法 Optimization Method | 40 | 2.5 | | | 8 | 7 |
| | 选 修 Elective | 0806492 | 数据挖掘 Data Mining | 40 | 2.5 | | | 8 | 7 |
| | 选 修 Elective | 0716841 | 统计计算与统计软件 Statistical Computation and Statistical Software | 40 | 2.5 | | | | 7 |
| | 选 修 Elective | 0701111 | 统计学 Statistics | 40 | 2.5 | | | | 7 |
| | 选 修 Elective | 0703451 | 保险精算学 Actuarial Science | 40 | 2.5 | | | | 7 |
| | 选 修 Elective | 0703461 | 贝叶斯统计 Bays Statistics | 40 | 2.5 | | | | 7 |
| | 选 修 Elective | 0200093 | 计量经济学 Econometrics | 40 | 2.5 | | | | 7 |
| | 选 修 Elective | 0703721 | 可靠性理论与方法 Reliability Theory | 40 | 2.5 | | | 12 | 7 |
| | 选 修 Elective | 0703921 | 试验设计 Experiment Design | 40 | 2.5 | | | 12 | 7 |
| 实践环节 practical training items | 必 修 Required | 1300012 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必 修 Required | 1300021 | 公益劳动 On-campus Voluntary Work | 1w | 0.5 | | | | 6 |
| | 必 修 Required | 1300084 | 生产实习 Engineering Internship | 4w | 2 | | | | 6 |
| | 必 修 Required | 1300462 | 软件实习 Software Practice | 2w | 1 | | | | 7 |
| | 必 修 Required | 1300066 | 毕业设计（论文） Undergraduate Thesis | 16w | 8 | | | | 8 |

# 数学基础学科拔尖人才实验班本科培养计划

# Undergraduate Program for Specialty in Mathematics

## 一、培养目标

## Ⅰ. Program Objective

通过基础课程的严格训练、专业课程的深入与提高，以及科学研究的初步训练，使学生了解数学学科发展的特点，掌握扎实的数学基本理论和方法。培养在数学的理论研究方面能力很强的青年人才，特别是具有坚实的数学基础、很强的创新意识和能力、优秀的综合素质、有潜力成为杰出数学家的青年学子。

Through rigorous basic training courses, and specific core courses, as well as initial training of scientific research, to make students understand the characteristics of the development of mathematics, solidlyobtain basic mathematical theories and methods, and then to lay a solid foundation for their future development. For young students' the theoretical study of mathematics or to become aoutstanding mathematician in future, to providegood mathematical foundation, to raise strong sense and ability of innovation.

## 二、基本规格要求

## Ⅱ. Learning outcomes

毕业生应获得以下几方面的知识和能力：

1. 具有扎实的数学基础，获得良好的数学理论和方法的训练；

2. 具有运用数学知识去解决实际问题能力，具有一定的科学研究的能力；

3. 有较强的语言表达能力，掌握资料查询，文献检索及运用现代信息技术获取相关信息的基本方法。

Upon successful completion of the program, students will be able to:

1. Solid grounding and excellent basic training in mathematics;

2. Skills to solve actual problem and ability to do certain scientific research;

3. Skills to express, and to master data query, document retrieval and the basic method of using the modern information technology to obtain relevant information.

## 三、培养特色

## Ⅲ. Program Highlights

培养具有扎实数学基础理论和方法，受到严格的科学思维训练，培养具有坚实的数学基础、很强的创新意识和能力、优秀的综合素质、有潜力成为杰出数学家的青年学子。

For young students' the theoretical study of mathematics or to become aoutstanding mathematician in future, to providegood mathematical foundation, to raise strong sense and ability of innovation.

## 四、主干学科

## Ⅳ. Academic Disciplines

数学 Mathematics、应用数学 Applied Mathematics、概率论与数理统计 Probability and Mathematical statistics

## 五、学制与学位

## Ⅴ. Program Length and Degree

修业年限：四年

Program Length:4 years

授予学位：理学学士

Degrees Conferred：Bachelor of Science

## 六、学时与学分

## Ⅵ. Credits Hours and Units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：155

Minimum curriculum credits (including courses and practicum): 155 credits

其中，专业基础课程、专业核心课程学分不允许用其他课程学分进行学分冲抵和替代。

Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：5

Minimum Extracurricular Credits: 5 credits

1. 课程体系学时与学分

Hours/Credits of Course System

| 课程类别 | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|
| 通识教育基础课程 | 必修 | 688/43 | 30.18 |
| | 选修 | 160/10 | 7.02 |
| 学科大类基础课程，专业核心课程 | 必修 | 1136/71 | 49.82 |
| 专业选修课程 | 选修 | 296/18.5 | 12.98 |
| 合计 | | 2280/142.5 | 100 |

| Course Type | Required /Elective | Hrs/Crs | Percentage (%) |
|---|---|---|---|
| General Education Core Curriculum | Required | 688/43 | 30.18 |
| | Elective | 160/10 | 7.02 |
| Education Basic and Core Courses | Required | 1136/71 | 49.82 |
| Major-specific Elective Courses | Elective | 296/18.5 | 12.98 |
| Total | | 2280/142.5 | 100 |

2. 实践教学环节周数与学分

Practicum Credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 8.0 |
| 公益劳动 | 必修 | 1/0.5 | 4.0 |
| 科学研究训练 | 必修 | 3/1.5 | 12.0 |
| 学科实践 | 必修 | 3/1.5 | 12.0 |
| 毕业设计（论文） | 必修 | 16/8 | 64.0 |
| 合计 | | 25/12.5 | 100 |

| Internship and Practical Training | Courses Nature | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 8.0 |
| On-campus Voluntary Work | Required | 1/0.5 | 4.0 |
| Scientific Training | Required | 3/1.5 | 12.0 |
| Practice of Disciplines | Required | 3/1.5 | 12.0 |
| Undergraduate Thesis | Required | 16/8 | 64.0 |
| Total | Required | 25/12.5 | 100 |

3.课外学分

Extracurricular Credits

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 学分 |
|---|---|---|---|---|
| 1 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委评为优秀社会实践队者。 | | 2 |
| 2 | 英语及计算机考试 | 全国大学英语六级考试 | 考试成绩达到学校要求者 | 2 |
| | | 托福考试 | 达 90 分以上者 | 3 |
| | | 雅思考试 | 达 6.5 分以上者 | 3 |
| | | GRE 考试 | 达 1350 分以上者 | 3 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |
| 3 | 竞赛 | 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 4 | 论文 | 在全国性刊物发表论文 | 每篇论文 | 2~3 |
| 5 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1~3 |

注：参加校体育运动会获第一名、第二名者与校级一等奖等同，获第三名至第五名者与校级二等奖等同，获第六至第八名者与校级三等奖等同。

| No. | Extracurricular Activities and Social Practice | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Activities of Social Practice | Submit report and pass oral defense | | 1 |
| | | Entitled as Activist by the Communist Youth League of HUST or Hubei Province;<br>Membership of the group which is entitled as Excellent Social Practice Group by the Communist Youth League of HUST or Hubei Province | | 2 |
| 2 | Qualifications | CET-6 | Students whose Band-6 exam scores accord our requirements | 2 |
| | | TOEFL | 90 Points or Higher | 3 |
| | | IELTS | 6.5 Points or Higher | 3 |
| | | GRE | 1350 Points or Higher | 3 |

continue

| No. | Extracurricular Activities and Social Practice | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 2 | Qualifications | National Computer Rank Examination | Certificate of Band-2 or higher | 2 |
| | | Qualifications for Computer and Software Technology Proficiency | Programmer | 2 |
| | | | Senior Programmer | 3 |
| | | | System Analyst | 4 |
| 3 | Competitions | University Level | First prize | 3 |
| | | | Second prize | 2 |
| | | | Third prize | 1 |
| | | Provincial Level | First prize | 4 |
| | | | Second prize | 3 |
| | | | Third prize | 2 |
| | | National Level | First prize | 6 |
| | | | Second prize | 4 |
| | | | Third prize | 3 |
| 4 | Academic Papers | Published in national-level journals | Per piece | 2~3 |
| 5 | Scientific Research | Depending on both the time spent in and ability demonstrated in scientific research project | Each item | 1~3 |

## 七、主要课程

## Ⅵ. Main Courses

数学分析Mathematical Analysis、高等代数与解析几何Higher Algebra and Analytical Geometry、大学物理Physics、计算机及程序设计基础(C++)Advanced Programming LanguageC++、常微分方程Ordinary Differential Equations、复变函数Complex Analysis、实变函数Real Analysis、泛函分析Functional Analysis、偏微分方程Partial Differential Equations、概率论与数理统计Probability and Mathematics Statistics、拓扑学Topology、近世代数Modern Algebra、微分几何Differential Geometry、运筹学Operation Research、随机过程Stochastic Processes

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Practicum Module (experiments included)

科学研究训练 Scientific training、毕业设计（论文）Undergraduate Thesis

## 九、教学进程计划表

## Ⅸ. Course Schedule

院（系）：数学与统计学院　　专业：拔尖人才实验班

School(Department): School of Mathematics and Statistics　　Specialty: Mathematics

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必修 Required | 0301902 | 思想道德修养与法律基础 Morals &Ethics&Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必修 Required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 Basic Courses in General Education | 必修 Required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必修 Required | 0100732 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必修 Required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必修 Required | 0100741 | 形势与政策 Current Affairs and Policy | 32 | 2 | 14 | | | 1-6 |
| | 必修 Required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | 必修 Required | 0508453 | 综合英语（一） English （Ⅰ） | 56 | 3.5 | | | | 1 |
| | 必修 Required | 0508463 | 综合英语（二） English （Ⅱ） | 56 | 3.5 | | | | 2 |
| | 必修 Required | 0700048 | 大学物理（一） Physics（Ⅰ） | 64 | 4 | | | | 2 |
| | 必修 Required | 0700049 | 大学物理（二） Physics（Ⅱ） | 64 | 4 | | | | 3 |
| | 必修 Required | 0706891 | 物理实验（一） Physics Experiments（Ⅰ） | 32 | 1 | | 32 | | 2 |
| | 必修 Required | 0706901 | 物理实验（二） Physics Experiments（Ⅱ） | 24 | 1 | | 24 | | 3 |
| | 必修 Required | 0400111 | 大学体育（一） Physical Education（Ⅰ） | 32 | 1 | | | | 1 |
| | 必修 Required | 0400121 | 大学体育（二） Physical Education（Ⅱ） | 32 | 1 | | | | 2 |
| | 必修 Required | 0400131 | 大学体育（三） Physical Education（Ⅲ） | 32 | 1 | | | | 3 |
| | 必修 Required | 0400141 | 大学体育（四） Physical Education（Ⅳ） | 32 | 1 | | | | 4 |
| | 必修 Required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 7 |
| | 必修 Required | 0827781 | 计算机及程序设计基础(C++) Fundamentals of Computer & Programming (C++) | 48 | 3 | | | 8 | 1 |
| | 必修 Required | 0811163 | 计算机网络技术与应用 The Application and Technology of Computer Network | 32 | 2 | | | 8 | 3 |
| | | | 人文社科类选修课程 Electives in Humanities and Social Science | 160 | 10 | | | | |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业课程·专业核心课程 Major-specific Core Courses 学科大类基础 Discipline-related General Courses | 必修 Required | 0400022 | 学科（专业）概论 Introduction to Discipline (Specialty) | 16 | 1 | | | | 1 |
| | 必修 Required | 0703661 | 数学分析（一） Mathematical Analysis (Ⅰ) | 80 | 5 | | | | 1 |
| | 必修 Required | 0703672 | 数学分析（二） Mathematical Analysis (2) | 80 | 5 | | | | 2 |
| | 必修 Required | 0703682 | 数学分析（三） Mathematical Analysis (3) | 80 | 5 | | | | 3 |
| | 必修 Required | 0703682 | 数学分析（四） Mathematical Analysis (4) | 80 | 5 | | | | 4 |
| | 必修 Required | 0703741 | 高等代数与解析几何(一) Higher Algebra and Analytical Geometry | 80 | 5 | | | | 1 |
| | 必修 Required | 0703752 | 高等代数与解析几何(二) Higher Algebra and Analytical Geometry | 88 | 5.5 | | | | 2 |
| | 必修 Required | 0703425 | 近世代数 Modern Algebra | 72 | 4.5 | | | | 3 |
| | 必修 Required | 0700204 | 常微分方程 Ordinary Differential Equations | 72 | 4.5 | | | | 3 |
| | 必修 Required | 0700214 | 概率论 Probability Theory | 72 | 4.5 | | | | 4 |
| | 必修 Required | 0707511 | 实分析 Real Analysis | 72 | 4.5 | | | | 4 |
| | 必修 Required | 0707521 | 复分析 Complex Analysis | 72 | 4.5 | | | | 5 |
| | 必修 Required | 0700315 | 泛函分析 Functional Analysis | 72 | 4.5 | | | | 5 |
| | 必修 Required | 0700415 | 拓扑学 Topology | 72 | 4.5 | | | | 6 |
| | 必修 Required | 0703403 | 偏微分方程 Partial Differential Equations | 64 | 4 | | | | 5 |
| | 必修 Required | 0700375 | 微分几何 Differential Geometry | 64 | 4 | | | | 6 |
| 专业课程·专业选修课程 Major-specific Electives | | | 专业方向选修课程 Electives in Specialty | 296 | 18.5 | | | | |
| | 选修 Elective | 0700235 | 数值分析 Numerical Analysis | 56 | 3.5 | | | 8 | 4 |
| | 选修 Elective | 0700274 | 数理统计 Mathematical Statistics | 64 | 4 | | | | 5 |
| | 选修 Elective | 0700383 | 微分方程数值解 Numerical Methods for Differential Equations | 64 | 4 | | | 8 | 6 |
| | 选修 Elective | 0700306 | 随机过程 Stochastic Processes | 64 | 4 | | | 8 | 6 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业课程·专业选修课程 Major-specific Electives | 选修 Elective | 0703641 | 泛函分析选讲 Selected Topics in Functional Analysis | 40 | 2.5 | | | | 7 |
| | 选修 Elective | 0707481 | 调和分析 Harmonic Analysis | 48 | 3 | | | | 7 |
| | 选修 Elective | 0707491 | 测度论 Measure theory | 48 | 3 | | | | 7 |
| | 选修 Elective | 0707531 | 遍历理论与动力系统 Ergodic Theory and Dynamical System | 48 | 3 | | | | 7 |
| | 选修 Elective | 0702592 | 数论 Number Theory | 48 | 3 | | | | 7 |
| | 选修 Elective | 0707421 | 代数几何 Algebraic Geometry | 48 | 3 | | | | 7 |
| | 选修 Elective | | 数学前沿短课程* Short Courses: Advanced Topics in Mathematics | | ⩾4 | | | | 3-8 |
| 实践环节 practical training items | 必修 Required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必修 Required | 1300024 | 公益劳动 On-campus Voluntary Work | 1w | 0.5 | | | | 6 |
| | 必修 Required | 1300459 | 科学研究训练 Scientific Training | 3w | 1.5 | | | | 1-8 |
| | 必修 Required | 1306231 | 学科实践 Practice of Disciplines | 3w | 1.5 | | | | 3-8 |
| | 必修 Required | 1300066 | 毕业设计（论文） Undergraduate Thesis | 16w | 8 | | | | 8 |

注：数学前沿短课程聘请国内外著名专家学者讲授数学领域中一些前沿方向的相关课题，一般为 16-32 学时（1-2 学分）。要求学生选修该类课程总学分数不低于 4 学分。

# 物 理 学 院

物理学院拥有“物理学”一级学科博士学位授予权和博士后流动站，以及“材料物理与化学” 博士点。在教育部 2012 年组织的学科评估中，物理学科的排名从 2009 年的并列第 19 名上升到并列第 12 名。

学院拥有科技部“引力与固体潮观测台站”、“基本物理量测量”教育部重点实验室、“重力导航”教育部重点实验室和“引力与量子物理”湖北省重点实验室。此外，武汉光电国家实验室(筹)、脉冲强磁场实验装置、精密重力测量重大基础设施(在建)为物理学院的光学、凝聚态与材料物理、地球物理等方向的发展提供了很好的平台。

物理学院现有专任教师 118 人，其中院士 3 人(含兼职 2 人)，长江学者 3 人，杰青 5 人，青年千人 6 人，优青 2 人，基金委创新研究群体 1 个，教育部创新团队 1 个。学院现有 11 个科研团队。学院获批的国基金项目连续五年超过 20 项，近 3 年到账总经费已过亿元。

学院重视人才培养，努力打造“培养科学家的摇篮”，致力于培养专业基础扎实宽厚、物理思维严谨敏锐、适合在物理学及相关交叉学科等领域从事科研工作的拔尖人才。学院现有“应用物理学”和“物理学”两个本科专业。近几年，本科毕业生读研比例已达 60%，出国深造的比例约 10%。进一步的目标是使 80%的本科毕业生能进入国内外一流大学或科研院所继续深造。

注重本科教学一直是学院的优良传统，本科核心专业课程大多由具有丰富科研经验的教授主讲。现有《基础物理学》和《大学物理实验》两门国家精品课程，以及《大学物理实验》和《大学物理》两门国家级精品资源共享课。物理实验中心获准建设国家级实验教学示范中心，基础物理课程教学团队被评为国家级教学团队。近年来学院获得国家级教学成果奖 4 项，省部级教学成果奖 8 项。

学院本科阶段主要核心课程有：力学、热学、电磁学、光学、原子物理学、理论

力学、电动力学、量子力学、热力学与统计物理学、固体物理、物理数学方法、实验物理等。此外，还针对不同专业方向，开设广义相对论与宇宙学、核物理与粒子物理、等离子体物理导论、精密测量物理导论、生物物理导论、计算物理、激光物理、模拟电子技术等课程，进一步拓宽学生的专业视野。

学院目前已经与美国 University of Maryland、德国 Max-Planck Institute、意大利 Politecnico di Torino、新加坡 National University of Singapore、Nanyang Technological University、中科院物理所、中科院武汉物理与数学所、中国台湾清华大学、中国台湾交通大学、中国台湾成功大学等国内外知名高校与科研院所建立了密切的学术交流与合作关系。学院积极安排学生到国内一流科研院所进行科研实习，表现优异的本科生有机会到上述知名大学进行交换生学习交流。

物理学院目前有在校生 800 余人。培养的学生中已有 1 名中科院院士、2 名美国物理学会会士、3 名 973 首席科学家、3 名长江学者、6 名杰青、4 名全国百篇优秀博士学位论文获得者。

# 物理学专业本科培养计划

# Undergraduate Program for Specialty in Physics

## 一、培养目标

## Ⅰ. Program Objective

本专业的目标为培养未来的科学家，使学生具有宽广坚实的物理理论基础、较强的数学和逻辑分析能力、动手实做能力以及实验分析能力。专业方向有理论物理、凝聚态与材料物理、光学、天体物理、原子核物理与粒子物理、精密测量物理、等离子体物理等，让学生全面地了解物理学发展现况，并且对最前沿的交叉学科有一定的认识，为学生下一阶段进行前沿科学和尖端技术的科研工作打下坚实基础。

The objective of this major is to cultivate future's scientists. We have tailored our curriculum to provide students with a broad and solid foundation of Physical theories, enhanced capability of mathematical and logical analyses, and a good skill of hands-on and experimental analysis. Some concentrations, including Theroretical Physics, Plasma Physics, Condensed-Matter & Materials physics, Optics, Astrophysics, Nuclear and Particle Physics, Precision Measurement Physics, are built to provide students a comprehensive understanding on the state of the arts in Physics. The goal is to let students have concrete background knowledge for doing research in the future whatever in frontier science and advanced technology.

## 二、基本规格要求

## Ⅱ. Learning outcomes

1. 系统地、全面地掌握本专业所需的物理基础理论及物理实验的基本方法和技能；

2. 掌握本专业必需的数学基础，具备较高的科技英语写作水平和沟通能力，以及运用计算机进行物理实验和模拟计算的能力；

3. 掌握进行科学研究的基本能力。

1. Learn fundamental theories and basic experimental skill in a systematic and comprehensive way;

2. Learn mathematical skill compulsory for analyzing physical problems, fluent communication skill and scientific writing in English, and computer-aided experiments and simulations;

3. Learn basic ability for doing scientific research.

## 三、培养特色

## Ⅲ. Program Highlights

物理与数学基础扎实，外语和沟通能力好，激发学生对科研的好奇心，加强培养学生的逻辑思维与分析能力。

Provide a good training with concrete background knowledge of physics and mathematics, and excellent communication skill in English. Stimulate students' curiosities about scientific research, meanwhile, cultivate students to obtain capabilities of logical thinking and analyzing.

## 四、主干学科

## Ⅳ. Major Disciplines

理论物理 Theoretical Physics、光学 Optics、凝聚态与材料物理 Condensed Matter and Material

Physics、天体物理 Astrophysics、核物理与粒子物理 Nuclear Physics & Particle Physics、精密测量物理 Precision Measurement Physics、等离子体物理 Plasma Physics

## 五、学制与学位

## Ⅴ. Program Length and Degree

学制： 四年

Duration: 4 years

授予学位： 理学学士

Degree Conferred: Bachelor of Science

## 六、学时与学分

## Ⅵ. Credits Hours and Units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：150 学分

Minimum curriculum credits (including courses and practicum): 150 credits

其中，专业基础课程、专业核心课程学分不允许用其它课程学分进行冲抵和代替。

Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：5 学分

Minimum Extracurricular Credits: 5 credits

1. 课程体系学时与学分

Course Credits Hours and Units

| 课程类别 | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|
| 通识教育基础课程 | 必修 | 744/46.5 | 34.1 |
| | 选修 | 160/10 | 7.3 |
| 学科专业基础课 | 必修 | 464/26.5 | 19.4 |
| 专业核心课程 | 必修 | 520/41.5 | 30.4 |
| 专业方向课程 | 选修 | 192/12 | 8.8 |
| 合计 | | 2080/136.5 | 100 |

| Course type | Required/Elective | Hrs/Crs | Percentage (%) |
|---|---|---|---|
| General Education Core Curriculum | Required | 744/46.5 | 34.1 |
| | Elective | 160/10 | 7.3 |
| Basic Sub-disciplinary Courses | Required | 464/26.5 | 19.4 |
| Major-specific Core Courses | Required | 520/41.5 | 30.4 |
| Major-specific Electives | Elective | 192/12 | 8.8 |
| Total | | 2080/136.5 | 100 |

2. 集中性实践教学环节周数与学分

Practicum credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 7.4 |
| 公益劳动 | 必修 | 1/0.5 | 3.7 |
| 电工实习 | 必修 | 2/1 | 7.4 |
| 生产实习（科研训练） | 必修 | 2/1 | 7.4 |
| 毕业设计（论文） | 必修 | 20/10 | 74.1 |
| 合计 | | 27/13.5 | 100 |

| Course Title | Course Nature | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 7.4 |
| On-campus Voluntary Work | Required | 1/0.5 | 3.7 |
| Electrical Engineering Practice | Required | 2/1 | 7.4 |
| Engineering Internship (Scientific Research Training) | Required | 2/1 | 7.4 |
| Undergraduate Thesis | Required | 20/10 | 74.1 |
| Total | | 27/13.5 | 100 |

3. 课外学分

Extracurricular Credits

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 社会实践活动（1.1 和 1.3 取最高项，不累加） | 1.1 参加学院组织的社会实践活动，提交调查报告，通过答辩者 | | 1 |
| | | 1.2 参加与物理学科相关的学术夏令营、暑期学校等学术活动，获得结业证书或通过学院答辩者 | | 1 |
| | | 1.3 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者（校级为 1，省级为 2） | | 1-2 |
| 2 | 学术活动 | 每参加 5 次学院组织的博学讲堂或学术讲座，上交讲座记录表，并选取其中感兴趣的一次讲座写成书面报告，通过学院认证者 | | 1 |
| | | 每参加 5 次学院组织的物理之夜或者专业导航活动，上交一份总结性书面报告，通过学院认证者 | | |
| 3 | 英语考试（本栏取最高项，不累加） | 3.1 全国大学英语六级考试 | 考试成绩达到 480 分及以上者 | 1 |
| 4 | 与物理相关的学术竞赛或学院认可的其他比赛(本栏取最高项，不累加) | 4.1 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 4.2 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 4.3 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 5 | 论文 | 在物理及相关学科的全国性刊物发表论文 | 每篇论文（视期刊级别） | 2~3 |
| 6 | 科研 | 参加一次研讨训练，通过答辩 | 每项（视参与科研项目、创新实践项目的时间、科研能力、科研成果） | 1~3 |
| | | 完成特优生培养计划 | | |
| | | 在物理创新基地、科研课题组参加科研实践，通过答辩 | | |
| | | 完成校大学生创新训练计划 | 每项（视参与科研项目、创新实践项目的时间、科研能力、科研成果） | 1~2 |
| | | 完成国家大学生创新训练计划 | | 2~4 |
| 7 | 实验 | 参加演示实验课外学分班，通过答辩者 | 每项 | 1~3 |

注：参加校体育运动会获第一名、第二名者与校级一等奖等同，获第三名至第五名者与校级二等奖等同，获第六至第八名者与校级三等奖等同。

| No. | Extracurricular Activities and Social Practice | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Community Engagement (Take higher credit between items 1.1 and 1.3) | 1.1 Participate in activities of social practice; submit report and pass oral defense | | 1 |
| | | 1.2 Participate in academic summer camp, summer school; obtain certificate or pass oral defence | | 1 |
| | | 1.3 Entitled as Activist by the Communist Youth League of HUST or Hubei Province; Membership of the group which is entitled as Excellent Social Practice Group by the Communist Youth League of HUST or Hubei Province (1 for university level, 2 for province level) | | 1-2 |
| 2 | Academic activities | Participate in the Learned Lecture organized by school for 5 times; submit lecture records and submit report for one lecture; obtain proof of school | | 1 |
| | | Participate in the activities of Physics Night or Discipline Guidance for 5 times; submit a final report and obtain proof of school | | |
| 3 | English Test (Take maximum credit from only one item) | 3.1 CET-6 | 480 points or higher | 1 |
| 4 | Academic competition or other competitions recognized by school (Take maximum credit from only one item) | 4.1 University level | Win first prize | 3 |
| | | | Win second prize | 2 |
| | | | Win third prize | 1 |
| | | 4.2 Province level | Win first prize | 4 |
| | | | Win second prize | 3 |
| | | | Win third prize | 2 |
| | | 4.3 National level | Win first prize | 6 |
| | | | Win second prize | 4 |
| | | | Win third prize | 3 |
| 5 | Academic Paper | Publish paper in physics-related peer-reviewed journal | Each paper (depends on journal's level) | 2~3 |
| 6 | Research Programs | Participate in one training of research and discussion; pass oral defence | Each item (depends on research project, working period, research capability and outcome) | 1~3 |
| | | Complete Outstanding Student Project | | |
| | | Involve in research project at the Innovation Base or any research group; pass oral defence | | |
| | | Complete university-level Innovation Training Program | Each item (depends on research project, working period, research capability and outcome) | 1~2 |
| | | Complete national-level Innovation Training Program | | 2~4 |
| 7 | Experiments | Participate in the class of demonstration experiments and pass oral defence | Each item | 1~3 |

Note: In HUST Sports Competition, the first and the second prize, the third to the fifth prize, and the sixth prize to the eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## Ⅶ. Main Courses

专业基础课程 Basic Sub-disciplinary Courses：物理学史 History of Physics、误差分析与数据处理 Error Analysis and Data Processing、概率论与数理统计（三）Probability and Statistics (Ⅲ)、模拟电子技术(一)Analogue Electronics(Ⅰ)、数学物理方法基础 Fundmental Mathematical Methods in Physics、数学物理方法 Mathematical Methods in Physics、物理学前沿专题 Topics on Frontier

Physics、基础物理实验（一）（二）Elementary Physics Laboratory（I）（II）、综合物理实验 Comprehensive Physics Laboratory、近代物理实验（一）（二）Modern Physics Laboratory（I）（II）

专业核心课程 Major-specific Core Courses：力学 Mechanics、热学 Thermal Physics、电磁学 Electromagnetics、光学 Optics、原子物理学 Atomic Physics、固体物理 Solid State Physics、理论力学 Theoretical Mechanics、电动力学 Electrodynamics、量子力学 Quantum Mechanics、热力学与统计物理学 Thermodynamics and Statistical Physics

专业方向课程 Major-specific Electives: 精密测量物理导论 Introduction to Precision Measurement Physics、生物物理学导论 Introduction to Biophysics、计算物理 Computational Physics、激光物理 Laser Physics、核物理与粒子物理 Nuclear Physics and Particle Physics、广义相对论与宇宙学 General Relativity and Cosmology、凝聚态物理导论 Introduction to Condensed Matter Physics、天体物理导论 Introduction to Astrophysics、等离子体物理导论 Introduction to Plasma Physics、地球物理导论 Introduction to Geophysics

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Practicum Module (Experiments included)

科学研究训练 Science Research Practice、毕业论文 Undergraduate Thesis

## 九、教学进程计划表

## Ⅸ. Course Schedule

院（系）：物理学院　　专业：物理学

School (Department): School of Physics　　Specialty: Physics

| 课程类别 Course Type | 课程性质 Required/ Elective | 课程代码 Course Code | 课程名称 Course Name | 学时 Hrs | 学分 Crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必　修 Required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必　修 Required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必　修 Required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必　修 Required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必　修 Required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 5 |
| | 必　修 Required | 0100741 | 形势与政策 Current Affairs and Policy | 32 | 2 | 14 | | | 1~6 |
| | 必　修 Required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | 必　修 Required | 0700011 | 微积分（一）上 Calculus (Ⅰ) | 88 | 5.5 | | | | 1 |
| | 必　修 Required | 0700012 | 微积分（一）　下 Calculus (Ⅱ) | 88 | 5.5 | | | | 2 |

续表

| 课程类别 Course Type | 课程性质 Required/ Elective | 课程代码 Course Code | 课程名称 Course Name | 学时 Hrs | 学分 Crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必 修 Required | 0508453 | 综合英语（一） Fundamental English （Ⅰ） | 56 | 3.5 | | | | 1 |
| | 必 修 Required | 0508463 | 综合英语（二） Fundamental English （Ⅱ） | 56 | 3.5 | | | | 2 |
| | 必 修 Required | 0400111 | 大学体育（一） Physical Education(Ⅰ) | 32 | 1 | | | | 1 |
| | 必 修 Required | 0400121 | 大学体育（二） Physical Education(Ⅱ) | 32 | 1 | | | | 2 |
| | 必 修 Required | 0400131 | 大学体育（三） Physical Education(Ⅲ) | 32 | 1 | | | | 3 |
| | 必 修 Required | 0400141 | 大学体育（四） Physical Education(Ⅳ) | 32 | 1 | | | | 4 |
| | 必 修 Required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 7 |
| | 必 修 Required | 0801665 | 工程制图（一） Engineering Graphics（Ⅰ） | 40 | 2.5 | | | | 1 |
| | 必 修 Required | 0827781 | 计算机及程序设计基础（C++） Computer and the foundataiton of programming design (C++) | 48 | 3 | | | 24 | 1 |
| | 选 修 Elective | | 人文社科类选修课程（指定选修艺术类课程 2 学分） Electives in the Humanities and Social Sciences | 160 | 10 | | | | 1~8 |
| | 必 修 Required 二选一 either-or | 0833174 | 数据库技术及应用 Database technology and Application | 32 | 2 | | | 12 | 4 |
| | | 0811163 | 计算机网络技术及应用 Network technology of Computer and Application | 32 | 2 | | | 12 | 4 |
| 学科专业基础课程 Basic Sub-disciplinary Courses | 必 修 Required | 0705863 | 物理学史 History of Physics | 24 | 1.5 | | | | 1 |
| | 必 修 Required | 0705871 | 误差分析与数据处理 Error analysis and data processing | 32 | 2 | | | | 2 |
| | 必 修 Required | 0700063 | 概率论与数理统计（三） Probability and Statistics (Ⅲ) | 40 | 2.5 | | | | 3 |
| | 必 修 Required | 0800121 | 模拟电子技术（一） Analogue Electronics（I） | 64 | 4 | | | | 4 |
| | 必 修 Required | 0706931 | 数学物理方法基础 Fundmental Mathematical Methods in Physics | 64 | 4 | | | | 2 |
| | 必 修 Required | 0700464 | 数学物理方法 Mathematical Methods in Physics | 64 | 4 | | | | 3 |
| | 必 修 Required | 0706332 | 物理学前沿专题 Topics on Frontier Physics | 32 | 2 | | | | 5 |

续表

| 课程类别 Course Type | 课程性质 Required/ Elective | 课程代码 Course Code | 课程名称 Course Name | 学时 Hrs | 学分 Crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 学科专业基础课程 Basic Sub-disciplinary Courses | 必 修 Required | 0704835 | 基础物理实验（一） Fundamental Physics Lab Experiments（I） | 32 | 1 | | 32 | | 2 |
| | 必 修 Required | 0706035 | 基础物理实验（二） Fundamental Physics Lab Experiments（II） | 32 | 1 | | 32 | | 3 |
| | 必 修 Required | 0706222 | 综合物理实验 Comprehensive Lab Experiments | 48 | 1.5 | | 48 | | 4 |
| | 必 修 Required | 0706232 | 近代物理实验（一） Lab Experiments of Modern Physics（I） | 48 | 1.5 | | 48 | | 5 |
| | 必 修 Required | 0706242 | 近代物理实验（二） Lab Experiments of Modern Physics（II） | 48 | 1.5 | | 48 | | 6 |
| 专业核心课程 Major-specific Core Courses | 必 修 Required | 0800633 | 力学 Mechanics | 72 | 4.5 | | | | 1 |
| | 必 修 Required | 0800642 | 热学 Thermal Physics | 48 | 3 | | | | 2 |
| | 必 修 Required | 0800653 | 电磁学 Electromagnetics | 72 | 4.5 | | | | 3 |
| | 必 修 Required | 0800661 | 光学 Optics | 72 | 4.5 | | | | 4 |
| | 必 修 Required | 0700441 | 原子物理 Atomic Physics | 48 | 3 | | | | 4 |
| | 必 修 Required | 0700145 | 固体物理 Solid State Physics | 64 | 4 | | | | 6 |
| | 必 修 Required | 0827701 | 理论力学 Theoretical Mechanics | 72 | 4.5 | | | | 3 |
| | 必 修 Required | 0800684 | 电动力学 Electrodynamics | 72 | 4.5 | | | | 5 |
| | 必 修 Required | 0800371 | 量子力学 Quantum Mechanics | 72 | 4.5 | | | | 5 |
| | 必 修 Required | 0800694 | 热力学与统计物理 Thermodynamics and Statistical Physics | 72 | 4.5 | | | | 6 |
| 专业方向课程 Major-specific Electives | 选 修 Elective | 0800134 | 数字电子技术 Digital Electronics | 48 | 3 | | | | 5 |
| | 选 修 Elective | 0706342 | 精密测量物理导论 Introduction to Precision Measurement Physics | 48 | 3 | | | | 6 |
| | 选 修 Elective | 0705081 | 生物物理学导论 Introduction to Biological Physics | 48 | 3 | | | | 6 |
| | 选 修 Elective | 0700334 | 计算物理 Computational Physics | 48 | 3 | | | 16 | 6 |
| | 选 修 Elective | 0700553 | 激光物理 Laser Physics | 48 | 3 | | | | 6 |
| | 选 修 Elective | 0706272 | 核物理与粒子物理 Nuclear Physics and Particle Physics | 48 | 3 | | | | 7 |

续表

| 课程类别 Course Type | 课程性质 Required/ Elective | 课程代码 Course Code | 课程名称 Course Name | 学时 Hrs | 学分 Crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业方向课程 Major-specific Electives | 选 修 Elective | 0700571 | 广义相对论与宇宙学 General Relativity and Cosmology | 48 | 3 | | | | 7 |
| | 选 修 Elective | 0700503 | 凝聚态物理导论 Introduction to Condensed Matter Physics | 48 | 3 | | | | 7 |
| | 选 修 Elective | 0706291 | 天体物理导论 Introduction to Astrophysics | 48 | 3 | | | | 7 |
| | 选 修 Elective | 0700562 | 等离子体物理导论 Introduction to Plasma Physics | 48 | 3 | | | | 7 |
| | 选 修 Elective | 0705091 | 地球物理导论 Introduction to Geophysics | 48 | 3 | | | | 7 |
| 实践环节 Practical Training Items | 必 修 Required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必 修 Required | 1304411 | 电工实习 Electrical Engineering Practice | 2w | 1 | | | | 3 |
| | 必 修 Required | 1300458 | 科学研究训练 Engineering Internship | 2w | 1 | | | | 6 |
| | 必 修 Required | 1300024 | 公益劳动 Labouring for Public Benefit | 1w | 0.5 | | | | 6 |
| | 必 修 Required | 130006c | 毕业论文 Undergraduate Thesis | 20w | 10 | | | | 7~8 |

# 应用物理专业本科培养计划

# Undergraduate Program for Specialty in Applied Physics

## 一、培养目标

## Ⅰ. Program Objective

本专业下设理论物理、凝聚态与材料物理、光学、精密测量物理、无线电物理和原子核物理与粒子物理等方向，培养具有宽广而坚实的数理理论基础和熟练科学实验技能，并具有较强的工作适应能力的复合型、创新型人才，既可在物理学、材料学、光电子、信息技术、生物物理、环境和能源等相关专业攻读研究生，也可以从事相关领域高科技开发及科学管理工作。

This program includes various concentrations, including Theoretical Physics, Plasma Physics, Condensed Matter and Material Physics, Optic, Precision Measurement Physics, Radiowave Physics, Nuclear Physics and Particle Physcis. It aims to cultivate talents with broadly and basically theoretical and experimental skills in modern applied physics. The graduates can continue further study in fields of Physics, Material Science, Opto-Electronics, Information technology, Biophysics, Environments and Energy. They are also able to pursue a career of R&D or management in related high-tech industry.

## 二、基本规格要求

## Ⅱ. Learning outcomes

1. 系统地、较好地掌握本专业所需的物理基础理论及物理学的基本实验方法和技能；

2. 掌握本专业必需的数学基础，并具备较高的外语水平和初步运用计算机的能力；

3. 掌握一定的专业物理知识，并进行研究性和应用性的基础训练，具有创新思维能力及解决问题的初步能力。

1. Learn systematically fundamental theories in physics;

2. Learn compulsory Mathematical skills, communication skill in English and computer skills;

3. Learn knowledge in speciality in Physics through basic trainings of research and practical applications, in order to build up a basic ability of creative thinking and problem-solving.

## 三、培养特色

## Ⅲ. Program Highlights

数理基础扎实，外语及数值计算基础好，适应面宽，能进行多学科结合，开展多方面的工作。

By setting solid foundations in physics and mathematics, and good skills in English and computating, graduate students in this program are able to involve in work in multi-discipline fields.

## 四、主干学科

## Ⅳ. Major Disciplines

理论物理 Theoretical Physics、光学 Optics、凝聚态与材料物理 Condensed Matter and Material Physics、天体物理 Astrophysics、核物理与粒子物理 Nuclear Physics & Particle Physics、精密测量物理 Precision Measurement Physics

## 五、学制与学位

## Ⅴ. Program Length and Degree

学制： 四年

Duration: 4 years

授予学位： 理学学士

Degree Conferred: Bachelor of Science

## 六、学时与学分

## Ⅵ. Credits Hours and Units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：150 学分

Minimum curriculum credits (including courses and practicum): 150 credits

其中，专业基础课程、专业核心课程学分不允许用其它课程学分进行冲抵和代替。

Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：5 学分

Minimum Extracurricular Credits: 5 credits

1. 课程体系学时与学分

Course Credits Hours and Units

| 课程类别 | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|
| 通识教育基础课程 | 必修 | 744/46.5 | 34.1 |
| | 选修 | 160/10 | 7.3 |
| 学科专业基础课 | 必修 | 512/29.5 | 21.6 |
| 专业核心课程 | 必修 | 520/41.5 | 30.4 |
| 专业方向课程 | 选修 | 144/9 | 6.6 |
| 合计 | | 2080/136.5 | 100 |

| Course type | Required/Elective | Hrs/Crs | Percentage (%) |
|---|---|---|---|
| General Education Core Curriculum | Required | 744/46.5 | 34.1 |
| | Elective | 160/10 | 7.3 |
| Basic Sub-disciplinary Courses | Required | 512/29.5 | 21.6 |
| Major-specific Core Courses | Required | 520/41.5 | 30.4 |
| Major-specific Electives | Elective | 144/9 | 6.6 |
| Total | | 2080/136.5 | 100 |

2. 集中性实践教学环节周数与学分

Practicum credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 7.4 |
| 公益劳动 | 必修 | 1/0.5 | 3.7 |
| 电工实习 | 必修 | 2/1 | 7.4 |
| 生产实习（科研训练） | 必修 | 2/1 | 7.4 |
| 毕业设计（论文） | 必修 | 20/10 | 74.1 |
| 合计 | | 27/13.5 | 100 |

| Course Title | Course Nature | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 7.4 |
| On-campus Voluntary Work | Required | 1/0.5 | 3.7 |
| Electrical Engineering Practice | Required | 2/1 | 7.4 |
| Engineering Internship (Scientific Research Training) | Required | 2/1 | 7.4 |
| Undergraduate Thesis | Required | 20/10 | 74.1 |
| Total | | 27/13.5 | 100 |

3. 课外学分

Extracurricular Credits

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 社会实践活动（1.1 和 1.3 取最高项，不累加） | 1.1 参加学院组织的社会实践活动，提交调查报告，通过答辩者 | | 1 |
| | | 1.2 参加与物理学科相关的学术夏令营、暑期学校等学术活动，获得结业证书或通过学院答辩者 | | 1 |
| | | 1.3 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者（校级为 1，省级为 2） | | 1-2 |
| 2 | 学术活动 | 每参加 5 次学院组织的博学讲堂或学术讲座，上交讲座记录表，并选取其中感兴趣的一次讲座写成书面报告，通过学院认证者 | | 1 |
| | | 每参加 5 次学院组织的物理之夜或者专业导航活动，上交一份总结性书面报告，通过学院认证者 | | |
| 3 | 英语考试（本栏取最高项，不累加） | 3.1 全国大学英语六级考试 | 考试成绩达到 480 分及以上者 | 1 |
| 4 | 与物理相关的学术竞赛或学院认可的其他比赛(本栏取最高项，不累加) | 4.1 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 4.2 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 4.3 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 5 | 论文 | 在物理及相关学科的全国性刊物发表论文 | 每篇论文（视期刊级别） | 2~3 |
| 6 | 科研 | 参加一次研讨训练，通过答辩 | 每项（视参与科研项目、创新实践项目的时间、科研能力、科研成果） | 1~3 |
| | | 完成特优生培养计划 | | |
| | | 在物理创新基地、科研课题组参加科研实践，通过答辩 | | |
| | | 完成校大学生创新训练计划 | 每项（视参与科研项目、创新实践项目的时间、科研能力、科研成果） | 1~2 |
| | | 完成国家大学生创新训练计划 | | 2~4 |
| 7 | 实验 | 参加演示实验课外学分班，通过答辩者 | 每项 | 1~3 |

注：参加校体育运动会获第一名、第二名者与校级一等奖等同，获第三名至第五名者与校级二等奖等同，获第六至第八名者与校级三等奖等同。

| No. | Extracurricular Activities and Social Practice | Requirements | Extracurricular Credits |
|---|---|---|---|
| 1 | Community Engagement (Take higher credit between items 1.1 and 1.3) | 1.1 Participate in activities of social practice; submit report and pass oral defense | 1 |
| | | 1.2 Participate in academic summer camp, summer school; obtain certificate or pass oral defence | 1 |
| | | 1.3 Entitled as Activist by the Communist Youth League of HUST or Hubei Province; Membership of the group which is entitled as Excellent Social Practice Group by the Communist Youth League of HUST or Hubei Province (1 for university level, 2 for province level) | 1-2 |

continue

| No. | Extracurricular Activities and Social Practice | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 2 | Academic activities | Participate in the Learned Lecture organized by school for 5 times; submit lecture records and submit report for one lecture; obtain proof of school | | 1 |
| | | Participate in the activities of Physics Night or Discipline Guidance for 5 times; submit a final report and obtain proof of school | | |
| 3 | English Test (Take maximum credit from only one item) | 3.1 CET-6 | 480 points or higher | 1 |
| 4 | Academic competition or other competitions recognized by school (Take maximum credit from only one item) | 4.1 University level | Win first prize | 3 |
| | | | Win second prize | 2 |
| | | | Win third prize | 1 |
| | | 4.2 Province level | Win first prize | 4 |
| | | | Win second prize | 3 |
| | | | Win third prize | 2 |
| | | 4.3 National level | Win first prize | 6 |
| | | | Win second prize | 4 |
| | | | Win third prize | 3 |
| 5 | Academic Paper | Publish paper in physics-related peer-reviewed journal | Each paper (depends on journal's level) | 2~3 |
| 6 | Research Programs | Participate in one training of research and discussion; pass oral defence | Each item (depends on research project, working period, research capability and outcome) | 1~3 |
| | | Complete Outstanding Student Project | | |
| | | Involve in research project at the Innovation Base or any research group; pass oral defence | | |
| | | Complete university-level Innovation Training Program | Each item (depends on research project, working period, research capability and outcome) | 1~2 |
| | | Complete national-level Innovation Training Program | | 2~4 |
| 7 | Experiments | Participate in the class of demonstration experiments and pass oral defence | Each item | 1~3 |

Note: In HUST Sports Competition, the first and the second prize, the third to the fifth prize, and the sixth prize to the eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## Ⅶ. Main Courses

专业基础课程 Basic Sub-disciplinary Courses：物理学史 History of Physics、误差分析与数据处理 Error Analysis and Data Processing、概率论与数理统计（三）Probability and Statistics (III)、模拟电子技术（一）Analogue Electronics（I）、数字电子技术 Digital Electronics、数学物理方法基础 Fundmental Mathematical Methods in Physics、数学物理方法 Mathematical Methods in Physics、物理学前沿专题 Topics on Frontier Physics、基础物理实验(一)(二)Elementary Physics Laboratory（I)(II)、综合物理实验 Comprehensive Physics Laboratory、近代物理实验(一)(二)Modern Physics Laboratory（I）（II）

专业核心课程 Major-specific Core Courses：力学 Mechanics、热学 Thermal Physics、电磁学 Electromagnetics、光学 Optics、原子物理学 Atomic Physics、固体物理 Solid State Physics、理论力学 Theoretical Mechanics、电动力学 Electrodynamics、量子力学 Quantum Mechanics、热力学与

统计物理学 Thermodynamics and Statistical Physics

专业方向课程 Major-specific Electives: 精密测量物理导论 Introduction to Precision Measurement Physics、生物物理学导论 Introduction to Biophysics、计算物理 Computational Physics、激光物理 Laser Physics、核物理与粒子物理 Nuclear Physics and Particle Physics、广义相对论与宇宙学 General Relativity and Cosmology、凝聚态物理导论 Introduction to Condensed Matter Physics、天体物理导论 Introduction to Astrophysics、等离子体物理导论 Introduction to Plasma Physics、地球物理导论 Introduction to Geophysics

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Practicum Module (Experiments included)

科学研究训练 Science Research Practice、毕业论文 Undergraduate Thesis

## 九、教学进程计划表

## Ⅸ. Course Schedule

院（系）：物理学院　　专业：应用物理

School (Department): School of Physics　　Specialty: Applied Physics

| 课程类别 Course Type | 课程性质 Required/ Elective | 课程代码 Course Code | 课程名称 Course Name | 学时 Hrs | 学分 Crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必　修 Required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必　修 Required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必　修 Required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必　修 Required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必　修 Required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 5 |
| | 必　修 Required | 0100741 | 形势与政策 Current Affairs and Policy | 32 | 2 | 14 | | | 1－6 |
| | 必　修 Required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | 必　修 Required | 0700011 | 微积分（一）上 Calculus (Ⅰ) | 88 | 5.5 | | | | 1 |
| | 必　修 Required | 0700012 | 微积分（一） 下 Calculus (Ⅱ) | 88 | 5.5 | | | | 2 |
| | 必　修 Required | 0508453 | 综合英语（一） Fundamental English （Ⅰ） | 56 | 3.5 | | | | 1 |
| | 必　修 Required | 0508463 | 综合英语（二） Fundamental English （Ⅱ） | 56 | 3.5 | | | | 2 |
| | 必　修 Required | 0400111 | 大学体育（一） Physical Education(Ⅰ) | 32 | 1 | | | | 1 |

续表

| 课程类别 Course Type | 课程性质 Required/ Elective | 课程代码 Course Code | 课程名称 Course Name | 学时 Hrs | 学分 Crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必 修 Required | 0400121 | 大学体育（二） Physical Education(Ⅱ) | 32 | 1 | | | | 2 |
| | 必 修 Required | 0400131 | 大学体育（三） Physical Education(Ⅲ) | 32 | 1 | | | | 3 |
| | 必 修 Required | 0400141 | 大学体育（四） Physical Education(Ⅳ) | 32 | 1 | | | | 4 |
| | 必 修 Required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 7 |
| | 必 修 Required | 0801665 | 工程制图（一） Engineering Graphics（I） | 40 | 2.5 | | | | 1 |
| | 必 修 Required | 0827781 | 计算机及程序设计基础（C++） Computer and the foundataiton of programming design (C++) | 48 | 3 | | | 24 | 1 |
| | 选 修 Elective | | 人文社科类选修课程（指定选修艺术类课程 2 学分） Electives in the Humanities and Social Sciences | 160 | 10 | | | | 1－8 |
| | 必 修 Required 二选一 either-or | 0833174 | 数据库技术及应用 Database technology and Application | 32 | 2 | | | 12 | 4 |
| | | 0811163 | 计算机网络技术及应用 Network technology of Computer and Application | 32 | 2 | | | 12 | 4 |
| 学科专业基础课程 Basic Sub-disciplinary Courses | 必 修 Required | 0705863 | 物理学史 History of Physics | 24 | 1.5 | | | | 1 |
| | 必 修 Required | 0705871 | 误差分析与数据处理 Error analysis and data processing | 32 | 2 | | | | 2 |
| | 必 修 Required | 0700063 | 概率论与数理统计（三） Probability and Statistics (Ⅲ) | 40 | 2.5 | | | | 3 |
| | 必 修 Required | 0800121 | 模拟电子技术（一） Analogue Electronics（I） | 64 | 4 | | | | 4 |
| | 必 修 Required | 0800134 | 数字电子技术 Digital Electronics | 48 | 3 | | | | 5 |
| | 必 修 Required | 0706931 | 数学物理方法基础 Fundmental Mathematical Methods in Physics | 64 | 4 | | | | 2 |
| | 必 修 Required | 0700464 | 数学物理方法 Mathematical Methods in Physics | 64 | 4 | | | | 3 |
| | 必 修 Required | 0706332 | 物理学前沿专题 Topics on Frontier Physics | 32 | 2 | | | | 5 |
| | 必 修 Required | 0704835 | 基础物理实验（一） Fundamental Physics Lab Experiments（I） | 32 | 1 | | 32 | | 2 |
| | 必 修 Required | 0706035 | 基础物理实验（二） Fundamental Physics Lab Experiments（II） | 32 | 1 | | 32 | | 3 |
| | 必 修 Required | 0706222 | 综合物理实验 Comprehensive Lab Experiments | 48 | 1.5 | | 48 | | 4 |

续表

| 课程类别 Course Type | 课程性质 Required/ Elective | 课程代码 Course Code | 课程名称 Course Name | 学时 Hrs | 学分 Crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必 修 Required | 0706232 | 近代物理实验（一） Lab Experiments of Modern Physics（I） | 48 | 1.5 | | 48 | | 5 |
| | 必 修 Required | 0706242 | 近代物理实验（二） Lab Experiments of Modern Physics（II） | 48 | 1.5 | | 48 | | 6 |
| 专业核心课程 Major-specific Core Courses | 必 修 Required | 0800633 | 力学 Mechanics | 72 | 4.5 | | | | 1 |
| | 必 修 Required | 0800642 | 热学 Thermal Physics | 48 | 3 | | | | 2 |
| | 必 修 Required | 0800653 | 电磁学 Electromagnetics | 72 | 4.5 | | | | 3 |
| | 必 修 Required | 0800661 | 光学 Optics | 72 | 4.5 | | | | 4 |
| | 必 修 Required | 0700441 | 原子物理 Atomic Physics | 48 | 3 | | | | 4 |
| | 必 修 Required | 0700145 | 固体物理 Solid State Physics | 64 | 4 | | | | 6 |
| | 必 修 Required | 0827701 | 理论力学 Theoretical Mechanics | 72 | 4.5 | | | | 3 |
| | 必 修 Required | 0800684 | 电动力学 Electrodynamics | 72 | 4.5 | | | | 5 |
| | 必 修 Required | 0800371 | 量子力学 Quantum Mechanics | 72 | 4.5 | | | | 5 |
| | 必 修 Required | 0800694 | 热力学与统计物理 Thermodynamics and Statistical Physics | 72 | 4.5 | | | | 6 |
| 专业方向课程 Major-specific Electives | 选 修 Elective | 0706342 | 精密测量物理导论 Introduction to Precision Measurement Physics | 48 | 3 | | | | 6 |
| | 选 修 Elective | 0705081 | 生物物理学导论 Introduction to Biological Physics | 48 | 3 | | | | 6 |
| | 选 修 Elective | 0700334 | 计算物理 Computational Physics | 48 | 3 | | | 16 | 6 |
| | 选 修 Elective | 0700553 | 激光物理 Laser Physics | 48 | 3 | | | | 6 |
| | 选 修 Elective | 0706272 | 核物理与粒子物理 Nuclear Physics and Particle Physics | 48 | 3 | | | | 7 |
| | 选 修 Elective | 0700571 | 广义相对论与宇宙学 General Relativity and Cosmology | 48 | 3 | | | | 7 |
| | 选 修 Elective | 0700503 | 凝聚态物理导论 Introduction to Condensed Matter Physics | 48 | 3 | | | | 7 |
| | 选 修 Elective | 0706291 | 天体物理导论 Introduction to Astrophysics | 48 | 3 | | | | 7 |
| | 选 修 Elective | 0700562 | 等离子体物理导论 Introduction to Plasma Physics | 48 | 3 | | | | 7 |

续表

| 课程类别 Course Type | 课程性质 Required/ Elective | 课程代码 Course Code | 课程名称 Course Name | 学时 Hrs | 学分 Crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 选　修 Elective | 0705091 | 地球物理导论 Introduction to Geophysics | 48 | 3 | | | | 7 |
| 实践环节 Practical Training Items | 必　修 Required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必　修 Required | 1304411 | 电工实习 Electrical Engineering Practice | 2w | 1 | | | | 3 |
| | 必　修 Required | 1300458 | 科学研究训练 Engineering Internship | 2w | 1 | | | | 6 |
| | 必　修 Required | 1300024 | 公益劳动 Labouring for Public Benefit | 1w | 0.5 | | | | 6 |
| | 必　修 Required | 130006c | 毕业论文 Undergraduate Thesis | 20w | 10 | | | | 7－8 |

# 严济慈物理学英才班本科培养计划

# Undergraduate Program for Specialty in Physics

## 一、培养目标

## Ⅰ. Program Objective

本专业的目标为培养未来的科学家，使学生具有宽广坚实的物理理论基础、较强的数学和逻辑分析能力、动手实做能力以及实验分析能力。专业方向有理论物理、凝聚态与材料物理、光学、天体物理、原子核物理与粒子物理、精密测量物理、等离子体物理等，让学生全面地了解物理学发展现况，并且对最前沿的交叉学科有一定的认识，为学生下一阶段进行前沿科学和尖端技术的科研工作打下坚实基础。

The objective of this major is to cultivate future's scientists. We have tailored our curriculum to provide students with a broad and solid foundation of Physical theories, enhanced capability of mathematical and logical analyses, and a good skill of hands-on and experimental analysis. Some concentrations, including Theroretical Physics, Plasma Physics, Condensed-Matter & Materials physics, Optics, Astrophysics, Nuclear and Particle Physics, Precision Measurement Physics, are built to provide students a comprehensive understanding on the state of the arts in Physics. The goal is to let students have concrete background knowledge for doing research in the future whatever in frontier science and advanced technology.

## 二、基本规格要求

## Ⅱ. Learning outcomes

1. 系统地、全面地掌握本专业所需的物理基础理论及物理实验的基本方法和技能；

2. 掌握本专业必需的数学基础，具备较高的科技英语写作水平和沟通能力，以及运用计算机进行物理实验和模拟计算的能力；

3. 掌握进行科学研究的基本能力。

1. Learn fundamental theories and basic experimental skill in a systematic and comprehensive way;

2. Learn mathematical skill compulsory for analyzing physical problems, fluent communication skill and scientific writing in English, and computer-aided experiments and simulations;

3. Learn basic ability for doing scientific research.

## 三、培养特色

## Ⅲ. Program Highlights

物理与数学基础扎实，外语和沟通能力好，激发学生对科研的好奇心，加强培养学生的逻辑思维与分析能力。

Provide a good training with concrete background knowledge of physics and mathematics, and excellent communication skill in English. Stimulate students' curiosities about scientific research, meanwhile, cultivate students to obtain capabilities of logical thinking and analyzing.

## 四、主干学科

## Ⅳ. Major Disciplines

理论物理 Theoretical Physics、光学 Optics、凝聚态与材料物理 Condensed Matter and Material

Physics、天体物理 Astrophysics、核物理与粒子物理 Nuclear Physics & Particle Physics、精密测量物理 Precision Measurement Physics、等离子体物理 Plasma Physics

## 五、学制与学位

## Ⅴ. Program Length and Degree

学制： 四年

Duration: 4 years

授予学位： 理学学士

Degree Conferred: Bachelor of Science

## 六、学时与学分

## Ⅵ. Credits Hours and Units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：150 学分

Minimum curriculum credits (including courses and practicum): 150 credits

其中，专业基础课程、专业核心课程学分不允许用其它课程学分进行冲抵和代替。

Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：5 学分

Minimum Extracurricular Credits: 5 credits

1. 课程体系学时与学分

Course Credits Hours and Units

| 课程类别 | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|
| 通识教育基础课程 | 必修 | 744/46.5 | 34.1 |
| | 选修 | 160/10 | 7.3 |
| 学科专业基础课 | 必修 | 464/26.5 | 19.4 |
| 专业核心课程 | 必修 | 520/41.5 | 30.4 |
| 专业方向课程 | 选修 | 192/12 | 8.8 |
| 合计 | | 2080/136.5 | 100 |

| Course type | Required/Elective | Hrs/Crs | Percentage (%) |
|---|---|---|---|
| General Education Core Curriculum | Required | 744/46.5 | 34.1 |
| | Elective | 160/10 | 7.3 |
| Basic Sub-disciplinary Courses | Required | 464/26.5 | 19.4 |
| Major-specific Core Courses | Required | 520/41.5 | 30.4 |
| Major-specific Electives | Elective | 192/12 | 8.8 |
| Total | | 2080/136.5 | 100 |

2. 集中性实践教学环节周数与学分

Practicum credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 7.4 |
| 公益劳动 | 必修 | 1/0.5 | 3.7 |
| 电工实习 | 必修 | 2/1 | 7.4 |
| 生产实习（科研训练） | 必修 | 2/1 | 7.4 |
| 毕业设计（论文） | 必修 | 20/10 | 74.1 |
| 合计 | | 27/13.5 | 100 |

| Course Title | Course Nature | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 7.4 |
| On-campus Voluntary Work | Required | 1/0.5 | 3.7 |
| Electrical Engineering Practice | Required | 2/1 | 7.4 |
| Engineering Internship (Scientific Research Training) | Required | 2/1 | 7.4 |
| Undergraduate Thesis | Required | 20/10 | 74.1 |
| Total | | 27/13.5 | 100 |

3. 课外学分

Extracurricular Credits

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 社会实践活动（1.1 和 1.3 取最高项，不累加） | 1.1 参加学院组织的社会实践活动，提交调查报告，通过答辩者 | | 1 |
| | | 1.2 参加与物理学科相关的学术夏令营、暑期学校等学术活动，获得结业证书或通过学院答辩者 | | 1 |
| | | 1.3 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者（校级为 1，省级为 2） | | 1-2 |
| 2 | 学术活动 | 每参加 5 次学院组织的博学讲堂或学术讲座，上交讲座记录表，并选取其中感兴趣的一次讲座写成书面报告，通过学院认证者 | | 1 |
| | | 每参加 5 次学院组织的物理之夜或者专业导航活动，上交一份总结性书面报告，通过学院认证者 | | |
| 3 | 英语考试（本栏取最高项，不累加） | 3.1 全国大学英语六级考试 | 考试成绩达到 480 分及以上者 | 1 |
| 4 | 与物理相关的学术竞赛或学院认可的其他比赛(本栏取最高项，不累加) | 4.1 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 4.2 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 4.3 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 5 | 论文 | 在物理及相关学科的全国性刊物发表论文 | 每篇论文（视期刊级别） | 2~3 |
| 6 | 科研 | 参加一次研讨训练，通过答辩 | 每项（视参与科研项目、创新实践项目的时间、科研能力、科研成果） | 1~3 |
| | | 完成特优生培养计划 | | |
| | | 在物理创新基地、科研课题组参加科研实践，通过答辩 | | |
| | | 完成校大学生创新训练计划 | 每项（视参与科研项目、创新实践项目的时间、科研能力、科研成果） | 1~2 |
| | | 完成国家大学生创新训练计划 | | 2~4 |
| 7 | 实验 | 参加演示实验课外学分班，通过答辩者 | 每项 | 1~3 |

注：参加校体育运动会获第一名、第二名者与校级一等奖等同，获第三名至第五名者与校级二等奖等同，获第六至第八名者与校级三等奖等同。

| No. | Extracurricular Activities and Social Practice | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Community Engagement (Take higher credit between items 1.1 and 1.3) | 1.1 Participate in activities of social practice; submit report and pass oral defense | | 1 |
| | | 1.2 Participate in academic summer camp, summer school; obtain certificate or pass oral defence | | 1 |
| | | 1.3 Entitled as Activist by the Communist Youth League of HUST or Hubei Province; Membership of the group which is entitled as Excellent Social Practice Group by the Communist Youth League of HUST or Hubei Province (1 for university level, 2 for province level) | | 1-2 |
| 2 | Academic activities | Participate in the Learned Lecture organized by school for 5 times; submit lecture records and submit report for one lecture; obtain proof of school | | 1 |
| | | Participate in the activities of Physics Night or Discipline Guidance for 5 times; submit a final report and obtain proof of school | | |
| 3 | English Test (Take maximum credit from only one item) | 3.1 CET-6 | 480 points or higher | 1 |
| 4 | Academic competition or other competitions recognized by school (Take maximum credit from only one item) | 4.1 University level | Win first prize | 3 |
| | | | Win second prize | 2 |
| | | | Win third prize | 1 |
| | | 4.2 Province level | Win first prize | 4 |
| | | | Win second prize | 3 |
| | | | Win third prize | 2 |
| | | 4.3 National level | Win first prize | 6 |
| | | | Win second prize | 4 |
| | | | Win third prize | 3 |
| 5 | Academic Paper | Publish paper in physics-related peer-reviewed journal | Each paper (depends on journal's level) | 2~3 |
| 6 | Research Programs | Participate in one training of research and discussion; pass oral defence | Each item (depends on research project, working period, research capability and outcome) | 1~3 |
| | | Complete Outstanding Student Project | | |
| | | Involve in research project at the Innovation Base or any research group; pass oral defence | | |
| | | Complete university-level Innovation Training Program | Each item (depends on research project, working period, research capability and outcome) | 1~2 |
| | | Complete national-level Innovation Training Program | | 2~4 |
| 7 | Experiments | Participate in the class of demonstration experiments and pass oral defence | Each item | 1~3 |

Note: In HUST Sports Competition, the first and the second prize, the third to the fifth prize, and the sixth prize to the eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## Ⅶ. Main Courses

专业基础课程 Basic Sub-disciplinary Courses：物理学史 History of Physics、误差分析与数据处理 Error Analysis and Data Processing、概率论与数理统计（三）Probability and Statistics (Ⅲ)、模拟电子技术(一)Analogue Electronics(Ⅰ)、数学物理方法基础 Fundmental Mathematical Methods in Physics、数学物理方法 Mathematical Methods in Physics、物理学前沿专题 Topics on Frontier

Physics、基础物理实验（一）（二）Elementary Physics Laboratory（I）（II）、综合物理实验 Comprehensive Physics Laboratory、近代物理实验（一）（二）Modern Physics Laboratory（I）（II）

专业核心课程 Major-specific Core Courses：力学 Mechanics、热学 Thermal Physics、电磁学 Electromagnetics、光学 Optics、原子物理学 Atomic Physics、固体物理 Solid State Physics、理论力学 Theoretical Mechanics、电动力学 Electrodynamics、量子力学 Quantum Mechanics、热力学与统计物理学 Thermodynamics and Statistical Physics

专业方向课程 Major-specific Electives: 精密测量物理导论 Introduction to Precision Measurement Physics、生物物理学导论 Introduction to Biophysics、计算物理 Computational Physics、激光物理 Laser Physics、核物理与粒子物理 Nuclear Physics and Particle Physics、广义相对论与宇宙学 General Relativity and Cosmology、凝聚态物理导论 Introduction to Condensed Matter Physics、天体物理导论 Introduction to Astrophysics、等离子体物理导论 Introduction to Plasma Physics、地球物理导论 Introduction to Geophysics

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Practicum Module (Experiments included)

科学研究训练 Science Research Practice、毕业论文 Undergraduate Thesis

## 九、教学进程计划表

## Ⅸ. Course Schedule

院（系）：物理学院　　专业：物理学

School (Department): School of Physics　　Specialty: Physics

| 课程类别 Course Type | 课程性质 Required/ Elective | 课程代码 Course Code | 课程名称 Course Name | 学时 Hrs | 学分 Crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必修 Required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必修 Required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必修 Required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必修 Required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必修 Required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 5 |
| | 必修 Required | 0100741 | 形势与政策 Current Affairs and Policy | 32 | 2 | 14 | | | 1－6 |
| | 必修 Required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | 必修 Required | 0700011 | 微积分（一）上 Calculus（Ⅰ） | 88 | 5.5 | | | | 1 |
| | 必修 Required | 0700012 | 微积分（一） 下 Calculus（Ⅱ） | 88 | 5.5 | | | | 2 |

续表

| 课程类别 Course Type | 课程性质 Required/ Elective | 课程代码 Course Code | 课程名称 Course Name | 学时 Hrs | 学分 Crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必 修 Required | 0508453 | 综合英语（一） Fundamental English （Ⅰ） | 56 | 3.5 | | | | 1 |
| | 必 修 Required | 0508463 | 综合英语（二） Fundamental English （Ⅱ） | 56 | 3.5 | | | | 2 |
| | 必 修 Required | 0400111 | 大学体育（一） Physical Education(Ⅰ) | 32 | 1 | | | | 1 |
| | 必 修 Required | 0400121 | 大学体育（二） Physical Education(Ⅱ) | 32 | 1 | | | | 2 |
| | 必 修 Required | 0400131 | 大学体育（三） Physical Education(Ⅲ) | 32 | 1 | | | | 3 |
| | 必 修 Required | 0400141 | 大学体育（四） Physical Education(Ⅳ) | 32 | 1 | | | | 4 |
| | 必 修 Required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 7 |
| | 必 修 Required | 0801665 | 工程制图（一） Engineering Graphics（I） | 40 | 2.5 | | | | 1 |
| | 必 修 Required | 0827781 | 计算机及程序设计基础（C++） Computer and the foundataiton of programming design (C++) | 48 | 3 | | | 24 | 1 |
| | 选 修 Elective | | 人文社科类选修课程（指定选修艺术类课程 2 学分） Electives in the Humanities and Social Sciences | 160 | 10 | | | | 1－8 |
| | 必 修 Required 二选一 either-or | 0833174 | 数据库技术及应用 Database technology and Application | 32 | 2 | | | 12 | 4 |
| | | 0811163 | 计算机网络技术及应用 Network technology of Computer and Application | 32 | 2 | | | 12 | 4 |
| 学科专业基础课程 Basic Sub-disciplinary Courses | 必 修 Required | 0705863 | 物理学史 History of Physics | 24 | 1.5 | | | | 1 |
| | 必 修 Required | 0705871 | 误差分析与数据处理 Error analysis and data processing | 32 | 2 | | | | 2 |
| | 必 修 Required | 0700063 | 概率论与数理统计（三） Probability and Statistics (Ⅲ) | 40 | 2.5 | | | | 3 |
| | 必 修 Required | 0800121 | 模拟电子技术（一） Analogue Electronics（I） | 64 | 4 | | | | 4 |
| | 必 修 Required | 0706931 | 数学物理方法基础 Fundmental Mathematical Methods in Physics | 64 | 4 | | | | 2 |
| | 必 修 Required | 0700464 | 数学物理方法 Mathematical Methods in Physics | 64 | 4 | | | | 3 |
| | 必 修 Required | 0706332 | 物理学前沿专题 Topics on Frontier Physics | 32 | 2 | | | | 5 |
| | 必 修 Required | 0704835 | 基础物理实验（一） Fundamental Physics Lab Experiments（I） | 32 | 1 | | 32 | | 2 |

续表

| 课程类别 Course Type | 课程性质 Required/ Elective | 课程代码 Course Code | 课程名称 Course Name | 学时 Hrs | 学分 Crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必 修 Required | 0706035 | 基础物理实验（二） Fundamental Physics Lab Experiments（II） | 32 | 1 | | 32 | | 3 |
| | 必 修 Required | 0706222 | 综合物理实验 Comprehensive Lab Experiments | 48 | 1.5 | | 48 | | 4 |
| | 必 修 Required | 0706232 | 近代物理实验（一） Lab Experiments of Modern Physics（I） | 48 | 1.5 | | 48 | | 5 |
| | 必 修 Required | 0706242 | 近代物理实验（二） Lab Experiments of Modern Physics（II） | 48 | 1.5 | | 48 | | 6 |
| 专业核心课程 Major-specific Core Courses | 必 修 Required | 0800633 | 力学 Mechanics | 72 | 4.5 | | | | 1 |
| | 必 修 Required | 0800642 | 热学 Thermal Physics | 48 | 3 | | | | 2 |
| | 必 修 Required | 0800653 | 电磁学 Electromagnetics | 72 | 4.5 | | | | 3 |
| | 必 修 Required | 0800661 | 光学 Optics | 72 | 4.5 | | | | 4 |
| | 必 修 Required | 0700441 | 原子物理 Atomic Physics | 48 | 3 | | | | 4 |
| | 必 修 Required | 0700145 | 固体物理 Solid State Physics | 64 | 4 | | | | 6 |
| | 必 修 Required | 0827701 | 理论力学 Theoretical Mechanics | 72 | 4.5 | | | | 3 |
| | 必 修 Required | 0800684 | 电动力学 Electrodynamics | 72 | 4.5 | | | | 5 |
| | 必 修 Required | 0800371 | 量子力学 Quantum Mechanics | 72 | 4.5 | | | | 5 |
| | 必 修 Required | 0800694 | 热力学与统计物理 Thermodynamics and Statistical Physics | 72 | 4.5 | | | | 6 |
| 专业方向课程 Major-specific Electives | 选 修 Elective | 0800134 | 数字电子技术 Digital Electronics | 48 | 3 | | | | 5 |
| | 选 修 Elective | 0706342 | 精密测量物理导论 Introduction to Precision Measurement Physics | 48 | 3 | | | | 6 |
| | 选 修 Elective | 0705081 | 生物物理学导论 Introduction to Biological Physics | 48 | 3 | | | | 6 |
| | 选 修 Elective | 0700334 | 计算物理 Computational Physics | 48 | 3 | | | 16 | 6 |
| | 选 修 Elective | 0700553 | 激光物理 Laser Physics | 48 | 3 | | | | 6 |
| | 选 修 Elective | 0706272 | 核物理与粒子物理 Nuclear Physics and Particle Physics | 48 | 3 | | | | 7 |
| | 选 修 Elective | 0700571 | 广义相对论与宇宙学 General Relativity and Cosmology | 48 | 3 | | | | 7 |

续表

| 课程类别 Course Type | 课程性质 Required/ Elective | 课程代码 Course Code | 课程名称 Course Name | 学时 Hrs | 学分 Crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业方向课程 Major-specific Electives | 选 修 Elective | 0700503 | 凝聚态物理导论 Introduction to Condensed Matter Physics | 48 | 3 | | | | 7 |
| | 选 修 Elective | 0706291 | 天体物理导论 Introduction to Astrophysics | 48 | 3 | | | | 7 |
| | 选 修 Elective | 0700562 | 等离子体物理导论 Introduction to Plasma Physics | 48 | 3 | | | | 7 |
| | 选 修 Elective | 0705091 | 地球物理导论 Introduction to Geophysics | 48 | 3 | | | | 7 |
| 实践环节 Practical Training Items | 必 修 Required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必 修 Required | 1304411 | 电工实习 Electrical Engineering Practice | 2w | 1 | | | | 3 |
| | 必 修 Required | 1300458 | 科学研究训练 Engineering Internship | 2w | 1 | | | | 6 |
| | 必 修 Required | 1300024 | 公益劳动 Labouring for Public Benefit | 1w | 0.5 | | | | 6 |
| | 必 修 Required | 130006c | 毕业论文 Undergraduate Thesis | 20w | 10 | | | | 7－8 |

注：科学研究训练可选择去中国科学院物理研究所。

# 基础学科拔尖人才培养计划物理学实验班本科培养计划

# Undergraduate Program for Specialty in Physics

## 一、培养目标

## Ⅰ. Program Objective

本专业的目标为培养未来的科学家，使学生具有宽广坚实的物理理论基础、较强的数学和逻辑分析能力、动手实做能力以及实验分析能力。专业方向有理论物理、凝聚态与材料物理、光学、天体物理、原子核物理与粒子物理、精密测量物理、等离子体物理等，让学生全面地了解物理学发展现况，并且对最前沿的交叉学科有一定的认识，为学生下一阶段进行前沿科学和尖端技术的科研工作打下坚实基础。

The objective of this major is to cultivate future's scientists. We have tailored our curriculum to provide students with a broad and solid foundation of Physical theories, enhanced capability of mathematical and logical analyses, and a good skill of hands-on and experimental analysis. Some concentrations, including Theroretical Physics, Plasma Physics, Condensed-Matter & Materials physics, Optics, Astrophysics, Nuclear and Particle Physics, Precision Measurement Physics, are built to provide students a comprehensive understanding on the state of the arts in Physics. The goal is to let students have concrete background knowledge for doing research in the future whatever in frontier science and advanced technology.

## 二、基本规格要求

## Ⅱ. Learning outcomes

1. 系统地、全面地掌握本专业所需的物理基础理论及物理实验的基本方法和技能；

2. 掌握本专业必需的数学基础，具备较高的科技英语写作水平和沟通能力，以及运用计算机进行物理实验和模拟计算的能力；

3. 掌握进行科学研究的基本能力。

1. Learn fundamental theories and basic experimental skill in a systematic and comprehensive way;

2. Learn mathematical skill compulsory for analyzing physical problems, fluent communication skill and scientific writing in English, and computer-aided experiments and simulations;

3. Learn basic ability for doing scientific research.

## 三、培养特色

## Ⅲ. Program Highlights

物理与数学基础扎实，外语和沟通能力好，激发学生对科研的好奇心，加强培养学生的逻辑思维与分析能力。

Provide a good training with concrete background knowledge of physics and mathematics, and excellent communication skill in English. Stimulate students' curiosities about scientific research, meanwhile, cultivate students to obtain capabilities of logical thinking and analyzing.

## 四、主干学科

## Ⅳ. Major Disciplines

理论物理 Theoretical Physics、光学 Optics、凝聚态与材料物理 Condensed Matter and Material

Physics、天体物理 Astrophysics、核物理与粒子物理 Nuclear Physics & Particle Physics、精密测量物理 Precision Measurement Physics、等离子体物理 Plasma Physics

## 五、学制与学位

## Ⅴ. Program Length and Degree

学制： 四年

Duration: 4 years

授予学位： 理学学士

Degree Conferred: Bachelor of Science

## 六、学时与学分

## Ⅵ. Credits Hours and Units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：150 学分

Minimum curriculum credits (including courses and practicum): 150 credits

其中，专业基础课程、专业核心课程学分不允许用其它课程学分进行冲抵和代替。

Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：5 学分

Minimum Extracurricular Credits: 5 credits

1. 课程体系学时与学分

Course Credits Hours and Units

| 课程类别 | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|
| 通识教育基础课程 | 必修 | 744/46.5 | 34.1 |
| | 选修 | 160/10 | 7.3 |
| 学科专业基础课 | 必修 | 464/26.5 | 19.4 |
| 专业核心课程 | 必修 | 520/41.5 | 30.4 |
| 专业方向课程 | 选修 | 192/12 | 8.8 |
| 合计 | | 2080/136.5 | 100 |

| Course type | Required/Elective | Hrs/Crs | Percentage (%) |
|---|---|---|---|
| General Education Core Curriculum | Required | 744/46.5 | 34.1 |
| | Elective | 160/10 | 7.3 |
| Basic Sub-disciplinary Courses | Required | 464/26.5 | 19.4 |
| Major-specific Core Courses | Required | 520/41.5 | 30.4 |
| Major-specific Electives | Elective | 192/12 | 8.8 |
| Total | | 2080/136.5 | 100 |

2. 集中性实践教学环节周数与学分

Practicum credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 7.4 |
| 公益劳动 | 必修 | 1/0.5 | 3.7 |
| 电工实习 | 必修 | 2/1 | 7.4 |
| 生产实习（科研训练） | 必修 | 2/1 | 7.4 |
| 毕业设计（论文） | 必修 | 20/10 | 74.1 |
| 合计 | | 27/13.5 | 100 |

| Course Title | Course Nature | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 7.4 |
| On-campus Voluntary Work | Required | 1/0.5 | 3.7 |
| Electrical Engineering Practice | Required | 2/1 | 7.4 |
| Engineering Internship (Scientific Research Training) | Required | 2/1 | 7.4 |
| Undergraduate Thesis | Required | 20/10 | 74.1 |
| Total | | 27/13.5 | 100 |

3. 课外学分

Extracurricular Credits

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 社会实践活动（1.1 和 1.3 取最高项，不累加） | 1.1 参加学院组织的社会实践活动，提交调查报告，通过答辩者 | | 1 |
| | | 1.2 参加与物理学科相关的学术夏令营、暑期学校等学术活动，获得结业证书或通过学院答辩者 | | 1 |
| | | 1.3 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者（校级为 1，省级为 2） | | 1~2 |
| 2 | 学术活动 | 每参加 5 次学院组织的博学讲堂或学术讲座，上交讲座记录表，并选取其中感兴趣的一次讲座写成书面报告，通过学院认证者 | | 1 |
| | | 每参加 5 次学院组织的物理之夜或者专业导航活动，上交一份总结性书面报告，通过学院认证者 | | |
| 3 | 英语考试（本栏取最高项，不累加） | 3.1 全国大学英语六级考试 | 考试成绩达到 480 分及以上者 | 1 |
| 4 | 与物理相关的学术竞赛或学院认可的其他比赛(本栏取最高项，不累加) | 4.1 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 4.2 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 4.3 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 5 | 论文 | 在物理及相关学科的全国性刊物发表论文 | 每篇论文（视期刊级别） | 2~3 |
| 6 | 科研 | 参加一次研讨训练，通过答辩 | 每项（视参与科研项目、创新实践项目的时间、科研能力、科研成果） | 1~3 |
| | | 完成特优生培养计划 | | |
| | | 在物理创新基地、科研课题组参加科研实践，通过答辩 | | |
| | | 完成校大学生创新训练计划 | 每项（视参与科研项目、创新实践项目的时间、科研能力、科研成果） | 1~2 |
| | | 完成国家大学生创新训练计划 | | 2~4 |
| 7 | 实验 | 参加演示实验课外学分班，通过答辩者 | 每项 | 1~3 |

注：参加校体育运动会获第一名、第二名者与校级一等奖等同，获第三名至第五名者与校级二等奖等同，获第六至第八名者与校级三等奖等同。

| No. | Extracurricular Activities and Social Practice | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Community Engagement (Take higher credit between items 1.1 and 1.3) | 1.1 Participate in activities of social practice; submit report and pass oral defense | | 1 |
| | | 1.2 Participate in academic summer camp, summer school; obtain certificate or pass oral defence | | 1 |
| | | 1.3 Entitled as Activist by the Communist Youth League of HUST or Hubei Province; Membership of the group which is entitled as Excellent Social Practice Group by the Communist Youth League of HUST or Hubei Province (1 for university level, 2 for province level) | | 1~2 |
| 2 | Academic activities | Participate in the Learned Lecture organized by school for 5 times; submit lecture records and submit report for one lecture; obtain proof of school | | 1 |
| | | Participate in the activities of Physics Night or Discipline Guidance for 5 times; submit a final report and obtain proof of school | | |
| 3 | English Test (Take maximum credit from only one item) | 3.1 CET-6 | 480 points or higher | 1 |
| 4 | Academic competition or other competitions recognized by school (Take maximum credit from only one item) | 4.1 University level | Win first prize | 3 |
| | | | Win second prize | 2 |
| | | | Win third prize | 1 |
| | | 4.2 Province level | Win first prize | 4 |
| | | | Win second prize | 3 |
| | | | Win third prize | 2 |
| | | 4.3 National level | Win first prize | 6 |
| | | | Win second prize | 4 |
| | | | Win third prize | 3 |
| 5 | Academic Paper | Publish paper in physics-related peer-reviewed journal | Each paper (depends on journal's level) | 2~3 |
| 6 | Research Programs | Participate in one training of research and discussion; pass oral defence | Each item (depends on research project, working period, research capability and outcome) | 1~3 |
| | | Complete Outstanding Student Project | | |
| | | Involve in research project at the Innovation Base or any research group; pass oral defence | | |
| | | Complete university-level Innovation Training Program | Each item (depends on research project, working period, research capability and outcome) | 1~2 |
| | | Complete national-level Innovation Training Program | | 2~4 |
| 7 | Experiments | Participate in the class of demonstration experiments and pass oral defence | Each item | 1~3 |

Note: In HUST Sports Competition, the first and the second prize, the third to the fifth prize, and the sixth prize to the eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## Ⅶ. Main Courses

专业基础课程 Basic Sub-disciplinary Courses：物理学史 History of Physics、误差分析与数据处理 Error Analysis and Data Processing、概率论与数理统计（三）Probability and Statistics (Ⅲ)、模拟电子技术（一）Analogue Electronics (Ⅰ)、数学物理方法基础 Fundmental Mathematical Methods in Physics、数学物理方法 Mathematical Methods in Physics、物理学前沿专题 Topics on Frontier Physics、基础物理实验（一）（二）Elementary Physics Laboratory（Ⅰ）(Ⅱ)、综合物理实验

Comprehensive Physics Laboratory、近代物理实验（一）（二）Modern Physics Laboratory（I）（II）

专业核心课程 Major-specific Core Courses：力学 Mechanics、热学 Thermal Physics、电磁学 Electromagnetics、光学 Optics、原子物理学 Atomic Physics、固体物理 Solid State Physics、理论力学 Theoretical Mechanics、电动力学 Electrodynamics、量子力学 Quantum Mechanics、热力学与统计物理学 Thermodynamics and Statistical Physics

专业方向课程 Major-specific Electives: 精密测量物理导论 Introduction to Precision Measurement Physics、生物物理学导论 Introduction to Biophysics、计算物理 Computational Physics、激光物理 Laser Physics、核物理与粒子物理 Nuclear Physics and Particle Physics、广义相对论与宇宙学 General Relativity and Cosmology、凝聚态物理导论 Introduction to Condensed Matter Physics、天体物理导论 Introduction to Astrophysics、等离子体物理导论 Introduction to Plasma Physics、地球物理导论 Introduction to Geophysics

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Practicum Module (Experiments included)

科学研究训练 Science Research Practice、毕业论文 Undergraduate Thesis

## 九、教学进程计划表

## Ⅸ. Course Schedule

院（系）：物理学院　　专业：物理学

School (Department): School of Physics　　Specialty: Physics

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必　修 Required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必　修 Required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必　修 Required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必　修 Required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必　修 Required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 5 |
| | 必　修 Required | 0100741 | 形势与政策 Current Affairs and Policy | 32 | 2 | 14 | | | 1－6 |
| | 必　修 Required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | 必　修 Required | 0700011 | 微积分（一）上 Calculus (Ⅰ) | 88 | 5.5 | | | | 1 |
| | 必　修 Required | 0700012 | 微积分（一）　下 Calculus (Ⅱ) | 88 | 5.5 | | | | 2 |
| | 必　修 Required | 0508453 | 综合英语（一） Fundamental English （Ⅰ） | 56 | 3.5 | | | | 1 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必 修 Required | 0508463 | 综合英语（二） Fundamental English （Ⅱ） | 56 | 3.5 | | | | 2 |
| | 必 修 Required | 0400111 | 大学体育（一） Physical Education(Ⅰ) | 32 | 1 | | | | 1 |
| | 必 修 Required | 0400121 | 大学体育（二） Physical Education(Ⅱ) | 32 | 1 | | | | 2 |
| | 必 修 Required | 0400131 | 大学体育（三） Physical Education(Ⅲ) | 32 | 1 | | | | 3 |
| | 必 修 Required | 0400141 | 大学体育（四） Physical Education(Ⅳ) | 32 | 1 | | | | 4 |
| | 必 修 Required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 7 |
| | 必 修 Required | 0801665 | 工程制图（一） Engineering Graphics（Ⅰ） | 40 | 2.5 | | | | 1 |
| | 必 修 Required | 0827781 | 计算机及程序设计基础（C++） Computer and the foundataiton of programming design (C++) | 48 | 3 | | | 24 | 1 |
| | 选 修 Elective | | 人文社科类选修课程（指定选修艺术类课程 2 学分） Electives in the Humanities and Social Sciences | 160 | 10 | | | | 1－8 |
| | 必 修 Required 二选一 either-or | 0833174 | 数据库技术及应用 Database technology and Application | 32 | 2 | | | 12 | 4 |
| | | 0811163 | 计算机网络技术及应用 Network technology of Computer and Application | 32 | 2 | | | 12 | 4 |
| 学科专业基础课程 Basic Sub-disciplinary Courses | 必 修 Required | 0705863 | 物理学史 History of Physics | 24 | 1.5 | | | | 1 |
| | 必 修 Required | 0705871 | 误差分析与数据处理 Error analysis and data processing | 32 | 2 | | | | 2 |
| | 必 修 Required | 0700063 | 概率论与数理统计（三） Probability and Statistics (Ⅲ) | 40 | 2.5 | | | | 3 |
| | 必 修 Required | 0800121 | 模拟电子技术（一） Analogue Electronics（I） | 64 | 4 | | | | 4 |
| | 必 修 Required | 0706931 | 数学物理方法基础 Fundmental Mathematical Methods in Physics | 64 | 4 | | | | 2 |
| | 必 修 Required | 0700464 | 数学物理方法 Mathematical Methods in Physics | 64 | 4 | | | | 3 |
| | 必 修 Required | 0706332 | 物理学前沿专题 Topics on Frontier Physics | 32 | 2 | | | | 5 |
| | 必 修 Required | 0704835 | 基础物理实验（一） Fundamental Physics Lab Experiments（I） | 32 | 1 | | 32 | | 2 |
| | 必 修 Required | 0706035 | 基础物理实验（二） Fundamental Physics Lab Experiments（II） | 32 | 1 | | 32 | | 3 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必 修 Required | 0706222 | 综合物理实验<br>Comprehensive Lab Experiments | 48 | 1.5 | | 48 | | 4 |
| | 必 修 Required | 0706232 | 近代物理实验（一）<br>Lab Experiments of Modern Physics（I） | 48 | 1.5 | | 48 | | 5 |
| | 必 修 Required | 0706242 | 近代物理实验（二）<br>Lab Experiments of Modern Physics（II） | 48 | 1.5 | | 48 | | 6 |
| 专业核心课程 Major-specific Core Courses | 必 修 Required | 0800633 | 力学<br>Mechanics | 72 | 4.5 | | | | 1 |
| | 必 修 Required | 0800642 | 热学<br>Thermal Physics | 48 | 3 | | | | 2 |
| | 必 修 Required | 0800653 | 电磁学<br>Electromagnetics | 72 | 4.5 | | | | 3 |
| | 必 修 Required | 0800661 | 光学<br>Optics | 72 | 4.5 | | | | 4 |
| | 必 修 Required | 0700441 | 原子物理<br>Atomic Physics | 48 | 3 | | | | 4 |
| | 必 修 Required | 0700145 | 固体物理<br>Solid State Physics | 64 | 4 | | | | 6 |
| | 必 修 Required | 0827701 | 理论力学<br>Theoretical Mechanics | 72 | 4.5 | | | | 3 |
| | 必 修 Required | 0800684 | 电动力学<br>Electrodynamics | 72 | 4.5 | | | | 5 |
| | 必 修 Required | 0800371 | 量子力学<br>Quantum Mechanics | 72 | 4.5 | | | | 5 |
| | 必 修 Required | 0800694 | 热力学与统计物理<br>Thermodynamics and Statistical Physics | 72 | 4.5 | | | | 6 |
| 专业方向课程 Major-specific Electives | 选 修 Elective | 0800134 | 数字电子技术<br>Digital Electronics | 48 | 3 | | | | 5 |
| | 选 修 Elective | 0706342 | 精密测量物理导论<br>Introduction to Precision Measurement Physics | 48 | 3 | | | | 6 |
| | 选 修 Elective | 0705081 | 生物物理学导论<br>Introduction to Biological Physics | 48 | 3 | | | | 6 |
| | 选 修 Elective | 0700334 | 计算物理<br>Computational Physics | 48 | 3 | | | 16 | 6 |
| | 选 修 Elective | 0700553 | 激光物理<br>Laser Physics | 48 | 3 | | | | 6 |
| | 选 修 Elective | 0706272 | 核物理与粒子物理<br>Nuclear Physics and Particle Physics | 48 | 3 | | | | 7 |
| | 选 修 Elective | 0700571 | 广义相对论与宇宙学<br>General Relativity and Cosmology | 48 | 3 | | | | 7 |
| | 选 修 Elective | 0700503 | 凝聚态物理导论<br>Introduction to Condensed Matter Physics | 48 | 3 | | | | 7 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业方向课程 Major-specific Electives | 选 修 Elective | 0706291 | 天体物理导论 Introduction to Astrophysics | 48 | 3 | | | | 7 |
| | 选 修 Elective | 0700562 | 等离子体物理导论 Introduction to Plasma Physics | 48 | 3 | | | | 7 |
| | 选 修 Elective | 0705091 | 地球物理导论 Introduction to Geophysics | 48 | 3 | | | | 7 |
| | 选 修 Elective | 012.524 | 高等量子力学 Advanced Quantum Mechanics | 64 | 4 | | | | 7 |
| | 选 修 Elective | 012.535 | 高等统计物理 Advanced Statistical Physics | 48 | 3 | | | | 7 |
| | 选 修 Elective | 012.528 | 凝聚态理论 Condensed Matter Theory | 64 | 4 | | | | 7 |
| 实践环节 Practical Training Items | 必 修 Required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必 修 Required | 1304411 | 电工实习 Electrical Engineering Practice | 2w | 1 | | | | 3 |
| | 必 修 Required | 1300458 | 科学研究训练 Engineering Internship | 2w | 1 | | | | 6 |
| | 必 修 Required | 1300024 | 公益劳动 Labouring for Public Benefit | 1w | 0.5 | | | | 6 |
| | 必 修 Required | 130006c | 毕业论文 Undergraduate Thesis | 20w | 10 | | | | 7－8 |

# 物理学 4+4 本博连读实验班本科培养计划

# Undergraduate Program for Specialty in Physics

## 一、培养目标

## Ⅰ. Program Objective

本专业的目标为培养未来的科学家，使学生具有宽广坚实的物理理论基础、较强的数学和逻辑分析能力、动手实做能力以及实验分析能力。专业方向有理论物理、凝聚态与材料物理、光学、天体物理、原子核物理与粒子物理、精密测量物理、等离子体物理等，让学生全面地了解物理学发展现况，并且对最前沿的交叉学科有一定的认识，为学生下一阶段进行前沿科学和尖端技术的科研工作打下坚实基础。

The objective of this major is to cultivate future's scientists. We have tailored our curriculum to provide students with a broad and solid foundation of Physical theories, enhanced capability of mathematical and logical analyses, and a good skill of hands-on and experimental analysis. Some concentrations, including Theroretical Physics, Plasma Physics, Condensed-Matter & Materials physics, Optics, Astrophysics, Nuclear and Particle Physics, Precision Measurement Physics, are built to provide students a comprehensive understanding on the state of the arts in Physics. The goal is to let students have concrete background knowledge for doing research in the future whatever in frontier science and advanced technology.

## 二、基本规格要求

## Ⅱ. Learning outcomes

1. 系统地、全面地掌握本专业所需的物理基础理论及物理实验的基本方法和技能；

2. 掌握本专业必需的数学基础，具备较高的科技英语写作水平和沟通能力，以及运用计算机进行物理实验和模拟计算的能力；

3. 掌握进行科学研究的基本能力。

1. Learn fundamental theories and basic experimental skill in a systematic and comprehensive way;

2. Learn mathematical skill compulsory for analyzing physical problems, fluent communication skill and scientific writing in English, and computer-aided experiments and simulations;

3. Learn basic ability for doing scientific research.

## 三、培养特色

## Ⅲ. Program Highlights

物理与数学基础扎实，外语和沟通能力好，激发学生对科研的好奇心，加强培养学生的逻辑思维与分析能力。

Provide a good training with concrete background knowledge of physics and mathematics, and excellent communication skill in English. Stimulate students' curiosities about scientific research, meanwhile, cultivate students to obtain capabilities of logical thinking and analyzing.

## 四、主干学科

## Ⅳ. Major Disciplines

理论物理 Theoretical Physics、光学 Optics、凝聚态与材料物理 Condensed Matter and Material

Physics、天体物理 Astrophysics、核物理与粒子物理 Nuclear Physics & Particle Physics、精密测量物理 Precision Measurement Physics、等离子体物理 Plasma Physics

## 五、学制与学位

## Ⅴ. Program Length and Degree

学制： 四年

Duration: 4 years

授予学位： 理学学士

Degree Conferred: Bachelor of Science

## 六、学时与学分

## Ⅵ. Credits Hours and Units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：150 学分

Minimum curriculum credits (including courses and practicum): 150 credits

其中，专业基础课程、专业核心课程学分不允许用其它课程学分进行冲抵和代替。

Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：5 学分

Minimum Extracurricular Credits: 5 credits

1. 课程体系学时与学分

Course Credits Hours and Units

| 课程类别 | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|
| 通识教育基础课程 | 必修 | 744/46.5 | 34.1 |
| | 选修 | 160/10 | 7.3 |
| 学科专业基础课 | 必修 | 464/26.5 | 19.4 |
| 专业核心课程 | 必修 | 520/41.5 | 30.4 |
| 专业方向课程 | 选修 | 192/12 | 8.8 |
| 合计 | | 2080/136.5 | 100 |

| Course type | Required/Elective | Hrs/Crs | Percentage (%) |
|---|---|---|---|
| General Education Core Curriculum | Required | 744/46.5 | 34.1 |
| | Elective | 160/10 | 7.3 |
| Basic Sub-disciplinary Courses | Required | 464/26.5 | 19.4 |
| Major-specific Core Courses | Required | 520/41.5 | 30.4 |
| Major-specific Electives | Elective | 192/12 | 8.8 |
| Total | | 2080/136.5 | 100 |

2. 集中性实践教学环节周数与学分

Practicum credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 7.4 |
| 公益劳动 | 必修 | 1/0.5 | 3.7 |
| 电工实习 | 必修 | 2/1 | 7.4 |
| 生产实习（科研训练） | 必修 | 2/1 | 7.4 |
| 毕业设计（论文） | 必修 | 20/10 | 74.1 |
| 合计 | | 27/13.5 | 100 |

| Course Title | Course Nature | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 7.4 |
| On-campus Voluntary Work | Required | 1/0.5 | 3.7 |
| Electrical Engineering Practice | Required | 2/1 | 7.4 |
| Engineering Internship (Scientific Research Training) | Required | 2/1 | 7.4 |
| Undergraduate Thesis | Required | 20/10 | 74.1 |
| Total | | 27/13.5 | 100 |

3. 课外学分

Extracurricular Credits

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 社会实践活动（1.1 和 1.3 取最高项，不累加） | 1.1 参加学院组织的社会实践活动，提交调查报告，通过答辩者 | | 1 |
| | | 1.2 参加与物理学科相关的学术夏令营、暑期学校等学术活动，获得结业证书或通过学院答辩者 | | 1 |
| | | 1.3 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者（校级为 1，省级为 2） | | 1~2 |
| 2 | 学术活动 | 每参加 5 次学院组织的博学讲堂或学术讲座，上交讲座记录表，并选取其中感兴趣的一次讲座写成书面报告，通过学院认证者 | | 1 |
| | | 每参加 5 次学院组织的物理之夜或者专业导航活动，上交一份总结性书面报告，通过学院认证者 | | |
| 3 | 英语考试（本栏取最高项，不累加） | 3.1 全国大学英语六级考试 | 考试成绩达到 480 分及以上者 | 1 |
| 4 | 与物理相关的学术竞赛或学院认可的其他比赛(本栏取最高项，不累加) | 4.1 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 4.2 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 4.3 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 5 | 论文 | 在物理及相关学科的全国性刊物发表论文 | 每篇论文（视期刊级别） | 2~3 |
| 6 | 科研 | 参加一次研讨训练，通过答辩 | 每项（视参与科研项目、创新实践项目的时间、科研能力、科研成果） | 1~3 |
| | | 完成特优生培养计划 | | |
| | | 在物理创新基地、科研课题组参加科研实践，通过答辩 | | |
| | | 完成校大学生创新训练计划 | 每项（视参与科研项目、创新实践项目的时间、科研能力、科研成果） | 1~2 |
| | | 完成国家大学生创新训练计划 | | 2~4 |
| 7 | 实验 | 参加演示实验课外学分班，通过答辩者 | 每项 | 1~3 |

注：参加校体育运动会获第一名、第二名者与校级一等奖等同，获第三名至第五名者与校级二等奖等同，获第六至第八名者与校级三等奖等同。

| No. | Extracurricular Activities and Social Practice | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Community Engagement (Take higher credit between items 1.1 and 1.3) | 1.1 Participate in activities of social practice; submit report and pass oral defense | | 1 |
| | | 1.2 Participate in academic summer camp, summer school; obtain certificate or pass oral defence | | 1 |
| | | 1.3 Entitled as Activist by the Communist Youth League of HUST or Hubei Province; Membership of the group which is entitled as Excellent Social Practice Group by the Communist Youth League of HUST or Hubei Province (1 for university level, 2 for province level) | | 1~2 |
| 2 | Academic activities | Participate in the Learned Lecture organized by school for 5 times; submit lecture records and submit report for one lecture; obtain proof of school | | 1 |
| | | Participate in the activities of Physics Night or Discipline Guidance for 5 times; submit a final report and obtain proof of school | | |
| 3 | English Test (Take maximum credit from only one item) | 3.1 CET-6 | 480 points or higher | 1 |
| 4 | Academic competition or other competitions recognized by school (Take maximum credit from only one item) | 4.1 University level | Win first prize | 3 |
| | | | Win second prize | 2 |
| | | | Win third prize | 1 |
| | | 4.2 Province level | Win first prize | 4 |
| | | | Win second prize | 3 |
| | | | Win third prize | 2 |
| | | 4.3 National level | Win first prize | 6 |
| | | | Win second prize | 4 |
| | | | Win third prize | 3 |
| 5 | Academic Paper | Publish paper in physics-related peer-reviewed journal | Each paper (depends on journal's level) | 2~3 |
| 6 | Research Programs | Participate in one training of research and discussion; pass oral defence | Each item (depends on research project, working period, research capability and outcome) | 1~3 |
| | | Complete Outstanding Student Project | | |
| | | Involve in research project at the Innovation Base or any research group; pass oral defence | | |
| | | Complete university-level Innovation Training Program | Each item (depends on research project, working period, research capability and outcome) | 1~2 |
| | | Complete national-level Innovation Training Program | | 2~4 |
| 7 | Experiments | Participate in the class of demonstration experiments and pass oral defence | Each item | 1~3 |

Note: In HUST Sports Competition, the first and the second prize, the third to the fifth prize, and the sixth prize to the eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## Ⅶ. Main Courses

专业基础课程 Basic Sub-disciplinary Courses：物理学史 History of Physics、误差分析与数据处理 Error Analysis and Data Processing、概率论与数理统计（三）Probability and Statistics (Ⅲ)、模拟电子技术(一)Analogue Electronics(Ⅰ)、数学物理方法基础 Fundmental Mathematical Methods in Physics、数学物理方法 Mathematical Methods in Physics、物理学前沿专题 Topics on Frontier

Physics、基础物理实验（一）（二）Elementary Physics Laboratory（I）（II）、综合物理实验 Comprehensive Physics Laboratory、近代物理实验（一）（二）Modern Physics Laboratory（I）（II）

专业核心课程 Major-specific Core Courses：力学 Mechanics、热学 Thermal Physics、电磁学 Electromagnetics、光学 Optics、原子物理学 Atomic Physics、固体物理 Solid State Physics、理论力学 Theoretical Mechanics、电动力学 Electrodynamics、量子力学 Quantum Mechanics、热力学与统计物理学 Thermodynamics and Statistical Physics

专业方向课程 Major-specific Electives: 精密测量物理导论 Introduction to Precision Measurement Physics、生物物理学导论 Introduction to Biophysics、计算物理 Computational Physics、激光物理 Laser Physics、核物理与粒子物理 Nuclear Physics and Particle Physics、广义相对论与宇宙学 General Relativity and Cosmology、凝聚态物理导论 Introduction to Condensed Matter Physics、天体物理导论 Introduction to Astrophysics、等离子体物理导论 Introduction to Plasma Physics、地球物理导论 Introduction to Geophysics

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Practicum Module (Experiments included)

科学研究训练 Science Research Practice、毕业论文 Undergraduate Thesis

## 九、教学进程计划表

## Ⅸ. Course Schedule

院（系）：物理学院　　专业：物理学

School (Department): School of Physics　　Specialty: Physics

| 课程类别 Course Type | 课程性质 Required/ Elective | 课程代码 Course Code | 课程名称 Course Name | 学时 Hrs | 学分 Crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必修 Required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必修 Required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必修 Required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必修 Required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必修 Required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 5 |
| | 必修 Required | 0100741 | 形势与政策 Current Affairs and Policy | 32 | 2 | 14 | | | 1－6 |
| | 必修 Required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | 必修 Required | 0700011 | 微积分（一）上 Calculus（Ⅰ） | 88 | 5.5 | | | | 1 |
| | 必修 Required | 0700012 | 微积分（一） 下 Calculus（Ⅱ） | 88 | 5.5 | | | | 2 |

续表

| 课程类别 Course Type | 课程性质 Required/ Elective | 课程代码 Course Code | 课程名称 Course Name | 学时 Hrs | 学分 Crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必 修 Required | 0508453 | 综合英语（一） Fundamental English （Ⅰ） | 56 | 3.5 | | | | 1 |
| | 必 修 Required | 0508463 | 综合英语（二） Fundamental English （Ⅱ） | 56 | 3.5 | | | | 2 |
| | 必 修 Required | 0400111 | 大学体育（一） Physical Education(Ⅰ) | 32 | 1 | | | | 1 |
| | 必 修 Required | 0400121 | 大学体育（二） Physical Education(Ⅱ) | 32 | 1 | | | | 2 |
| | 必 修 Required | 0400131 | 大学体育（三） Physical Education(Ⅲ) | 32 | 1 | | | | 3 |
| | 必 修 Required | 0400141 | 大学体育（四） Physical Education(Ⅳ) | 32 | 1 | | | | 4 |
| | 必 修 Required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 7 |
| | 必 修 Required | 0801665 | 工程制图（一） Engineering Graphics（I） | 40 | 2.5 | | | | 1 |
| | 必 修 Required | 0827781 | 计算机及程序设计基础（C++） Computer and the foundataiton of programming design (C++) | 48 | 3 | | | 24 | 1 |
| | 选 修 Elective | | 人文社科类选修课程（指定选修艺术类课程 2 学分） Electives in the Humanities and Social Sciences | 160 | 10 | | | | 1－8 |
| | 必 修 Required 二选一 either-or | 0833174 | 数据库技术及应用 Database technology and Application | 32 | 2 | | | 12 | 4 |
| | | 0811163 | 计算机网络技术及应用 Network technology of Computer and Application | 32 | 2 | | | 12 | 4 |
| 学科专业基础课程 Basic Sub-disciplinary Courses | 必 修 Required | 0705863 | 物理学史 History of Physics | 24 | 1.5 | | | | 1 |
| | 必 修 Required | 0705871 | 误差分析与数据处理 Error analysis and data processing | 32 | 2 | | | | 2 |
| | 必 修 Required | 0700063 | 概率论与数理统计（三） Probability and Statistics (Ⅲ) | 40 | 2.5 | | | | 3 |
| | 必 修 Required | 0800121 | 模拟电子技术（一） Analogue Electronics（I） | 64 | 4 | | | | 4 |
| | 必 修 Required | 0706931 | 数学物理方法基础 Fundmental Mathematical Methods in Physics | 64 | 4 | | | | 2 |
| | 必 修 Required | 0700464 | 数学物理方法 Mathematical Methods in Physics | 64 | 4 | | | | 3 |
| | 必 修 Required | 0706332 | 物理学前沿专题 Topics on Frontier Physics | 32 | 2 | | | | 5 |
| | 必 修 Required | 0704835 | 基础物理实验（一） Fundamental Physics Lab Experiments（I） | 32 | 1 | | 32 | | 2 |

续表

| 课程类别 Course Type | 课程性质 Required/ Elective | 课程代码 Course Code | 课程名称 Course Name | 学时 Hrs | 学分 Crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必 修 Required | 0706035 | 基础物理实验（二） Fundamental Physics Lab Experiments（II） | 32 | 1 | | 32 | | 3 |
| | 必 修 Required | 0706222 | 综合物理实验 Comprehensive Lab Experiments | 48 | 1.5 | | 48 | | 4 |
| | 必 修 Required | 0706232 | 近代物理实验（一） Lab Experiments of Modern Physics（I） | 48 | 1.5 | | 48 | | 5 |
| | 必 修 Required | 0706242 | 近代物理实验（二） Lab Experiments of Modern Physics（II） | 48 | 1.5 | | 48 | | 6 |
| 专业核心课程 Major-specific Core Courses | 必 修 Required | 0800633 | 力学 Mechanics | 72 | 4.5 | | | | 1 |
| | 必 修 Required | 0800642 | 热学 Thermal Physics | 48 | 3 | | | | 2 |
| | 必 修 Required | 0800653 | 电磁学 Electromagnetics | 72 | 4.5 | | | | 3 |
| | 必 修 Required | 0800661 | 光学 Optics | 72 | 4.5 | | | | 4 |
| | 必 修 Required | 0700441 | 原子物理 Atomic Physics | 48 | 3 | | | | 4 |
| | 必 修 Required | 0700145 | 固体物理 Solid State Physics | 64 | 4 | | | | 6 |
| | 必 修 Required | 0827701 | 理论力学 Theoretical Mechanics | 72 | 4.5 | | | | 3 |
| | 必 修 Required | 0800684 | 电动力学 Electrodynamics | 72 | 4.5 | | | | 5 |
| | 必 修 Required | 0800371 | 量子力学 Quantum Mechanics | 72 | 4.5 | | | | 5 |
| | 必 修 Required | 0800694 | 热力学与统计物理 Thermodynamics and Statistical Physics | 72 | 4.5 | | | | 6 |
| 专业方向课程 Major-specific Electives | 选 修 Elective | 0800134 | 数字电子技术 Digital Electronics | 48 | 3 | | | | 5 |
| | 选 修 Elective | 0706342 | 精密测量物理导论 Introduction to Precision Measurement Physics | 48 | 3 | | | | 6 |
| | 选 修 Elective | 0705081 | 生物物理学导论 Introduction to Biological Physics | 48 | 3 | | | | 6 |
| | 选 修 Elective | 0700334 | 计算物理 Computational Physics | 48 | 3 | | | 16 | 6 |
| | 选 修 Elective | 0700553 | 激光物理 Laser Physics | 48 | 3 | | | | 6 |
| | 选 修 Elective | 0706272 | 核物理与粒子物理 Nuclear Physics and Particle Physics | 48 | 3 | | | | 7 |
| | 选 修 Elective | 0700571 | 广义相对论与宇宙学 General Relativity and Cosmology | 48 | 3 | | | | 7 |

续表

| 课程类别 Course Type | 课程性质 Required/ Elective | 课程代码 Course Code | 课程名称 Course Name | 学时 Hrs | 学分 Crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业方向课程 Major-specific Electives | 选 修 Elective | 0700503 | 凝聚态物理导论 Introduction to Condensed Matter Physics | 48 | 3 | | | | 7 |
| | 选 修 Elective | 0706291 | 天体物理导论 Introduction to Astrophysics | 48 | 3 | | | | 7 |
| | 选 修 Elective | 0700562 | 等离子体物理导论 Introduction to Plasma Physics | 48 | 3 | | | | 7 |
| | 选 修 Elective | 0705091 | 地球物理导论 Introduction to Geophysics | 48 | 3 | | | | 7 |
| | 选 修 Elective | 012.524 | 高等量子力学 Advanced Quantum Mechanics | 64 | 4 | | | | 7 |
| | 选 修 Elective | 012.535 | 高等统计物理 Advanced Statistical Physics | 48 | 3 | | | | 7 |
| | 选 修 Elective | 012.528 | 凝聚态理论 Condensed Matter Theory | 64 | 4 | | | | 7 |
| 实践环节 Practical Training Items | 必 修 Required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必 修 Required | 1304411 | 电工实习 Electrical Engineering Practice | 2w | 1 | | | | 3 |
| | 必 修 Required | 1300458 | 科学研究训练 Engineering Internship | 2w | 1 | | | | 6 |
| | 必 修 Required | 1300024 | 公益劳动 Labouring for Public Benefit | 1w | 0.5 | | | | 6 |
| | 必 修 Required | 130006c | 毕业论文 Undergraduate Thesis | 20w | 10 | | | | 7－8 |

# 化学与化工学院

华中科技大学化学与化工学院设有化学系、化学工程与工艺系和应用化学系三个系，一个化学实验教学中心。同时设有无机与化学生物学、有机与精细化工、分析科学、物化与工业催化、材料与环境化学、高分子科学与工程、化学工程共7个研究所。在岗教职员工109人，专任教师77人。专任教师中有教授36名，副教授33名，教师博士学位拥有率达83.5%。其中，国家杰出青年科学基金获得者1人，“青年千人”4人，新世纪人才9人，楚天学者特聘教授6人、楚天学子7人、“湖北省杰出青年”6人。

学院拥有化学、应用化学、化学工程与工艺三个本科专业。拥有化学一级学科湖北省重点学科；化学一级学科博士、硕士授予权（理学）、材料物理与化学（工学）博士点、化学工程与技术一级学科硕士授予权（工学）。

学院建有大型电池关键材料与系统教育部重点实验室、生物无机化学与药物湖北省重点实验室和材料化学与服役失效湖北省重点实验室。化学实验教学中心为湖北省化学实验教学示范中心。

学院在读本科生总数保持在700人左右，研究生350人。另外，同济医学院临床医学八年制学生和重庆医科大学临床医学七年制新生每年约250人左右进入我院培养。

# 应用化学本科专业培养计划

# Undergraduate Program for Specialty in Applied Chemistry

## 一、培养目标

## Ⅰ. Program Objectives

本专业培养掌握扎实的化学基本理论、基本实验技能和现代实验技术；获得一定的工程基础知识和计算机基础知识的基本训练；熟悉本学科的现状、前沿及其在生产实践中的应用；能在教育、科研院所、公司和企业等部门从事化学及相关领域里的教学、科研、开发及管理等工作的高级科技人才。

This program covers the basic theories, experimental skills and techniques in chemistry. You will have a good understanding of the current situation and future prospect of chemistry and its application in production, as well as learning the basic knowledge about engineering and computers. Our aim is to bring out talents that meet the needs of companies, educational institutions, and research institutes in areas like medicines, materials and environment protection.

## 二、基本规格要求

## Ⅱ. Learning outcomes

毕业生应获得以下几方面的知识和能力：

1. 具有良好人文和科学素质，具有社会责任感。
2. 具有扎实的和较为系统的化学基础知识、基本理论和基本技能；
3. 具有独立获取知识和解决问题的能力；
4. 具有一定的相关学科的知识和工程知识；
5. 具有一定的计算机知识和应用能力；
6. 比较好地掌握一门外国语，能顺利地阅读专业书刊和查阅文献的能力。

Students of the program will acquire：

1. Quality of humanity and science, and also social responsibility.
2. Systematic basic knowledge, theories and skills in chemistry；
3. Capability to learn and solve problems independently；
4. Some knowledge of engineering and in related areas of study；
5. Computer literacy and application skills；
6. Mastery of a foreign language and the ability to employ technical resources and literature.

## 三、培养特色

## Ⅲ. Program Highlights

培养在化学生物学与材料化学方向具有一定专门知识的高级人才。

This program aims to nurture talents with specialized knowledge on chemical biology and materials chemistry.

## 四、主干学科

## Ⅳ. Academic Discipline

化学 Chemistry

## 五、学制与学位

## Ⅴ. Program Length and Degree

修业年限：四年

Duration: 4 years

授予学位：理学学士

Degrees Conferred: Bachelor of Science

## 六、学时与学分

## Ⅵ. Credits Hours and Units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：159.8

Minimum curriculum credits (including courses and practicum): 159.8

其中、专业基础课程、专业核心课程学分不允许用其他课程学分进行冲抵和替代。

Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：5

Minimum Extracurricular Credits: 5

1. 课程体系学时与学分

Course Credits Hours and Units

| 课程类别 | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|
| 通识教育基础课程 | 必修 | 960/54.3 | 37.2 |
| | 选修 | 160/10 | 6.9 |
| 学科(大类)基础课程 | 必修 | 448/11 | 7.5 |
| 专业核心课程 | 必修 | 448/26.5 | 18.2 |
| 专业必修课程 | 必修 | 288/17 | 11.7 |
| 专业选修课程 | 选修 | 432/27 | 18.5 |
| 合计 | | 2624/145.8 | 100 |

| Course Type | Required/Elective | Hrs/Crs | Percentage (%) |
|---|---|---|---|
| General Education Core Curriculum | Required | 960/54.3 | 37.2 |
| | Elective | 160/10 | 6.9 |
| Discipline-related General Courses | Required | 448/11 | 7.5 |
| Major-specific Core Courses | Required | 448/26.5 | 18.2 |
| Major-specific Courses | Required | 288/17 | 11.7 |
| Major-specific Electives | Elective | 432/27 | 18.5 |
| Total | | 2624/145.8 | 100 |

2. 集中性实践教学环节周数与学分

Practicum Credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 7.1 |
| 公益劳动 | 必修 | 1/0.5 | 3.6 |
| 电工实习 | 必修 | 2/1 | 7.1 |
| 生产实习（社会实践） | 必修 | 3/1.5 | 10.7 |
| 课程设计 | 必修 | 1/0.5 | 3.6 |
| 科学训练（综合化学实验） | 必修 | 3/1.5 | 10.7 |
| 毕业设计（论文） | 必修 | 20/8 | 57.1 |
| 合计 | | 32/14 | 100 |

| Course Title | Required/Elective | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 7.1 |
| On-campus Voluntary Work | Required | 1/0.5 | 3.6 |
| Electrical Engineering Practice | Required | 2/1 | 7.1 |
| Engineering internship (Social Practice) | Required | 3/1.5 | 10.7 |
| Course Project | Required | 1/0.5 | 3.6 |
| Scientific Research Training (Comprehensive Chemical Experiments) | Required | 3/1.5 | 10.7 |
| Undergraduate Thesis | Required | 20/8 | 57.1 |
| Total | | 32/14 | 100 |

3. 课外学分

Extracurricular Credits

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 2 | 英语及计算机考试 | 全国大学英语六级考试 | 获六级证书者 | 2 |
| | | 托福考试 | 达 90 分以上者 | 3 |
| | | 雅思考试 | 达 6.5 分以上者 | 3 |
| | | GRE 考试 | 达 1350 分以上者 | 3 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |
| 3 | 竞赛 | 校级 | 获一等奖者；校体育运动会第 1、2 名 | 3 |
| | | | 获二等奖者；校体育运动会第 3、4、5 名 | 2 |
| | | | 获三等奖者；校体育运动会第 6、7、8 名 | 1 |
| | | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 4 | 论文 | 在全国性刊物发表论文 | 每篇论文 | 2~3 |
| 5 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1~3 |
| 6 | 实验 | 视创新情况 | 每项 | 1~3 |

| No. | Activities | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Activities of Social Practice | Submitting a report and passing the oral defense | | 1 |
| | | Individuals awarded “Active Participant” / Teams awarded “Excellent Performance” by HUST or Hubei Youth League Committee | | 2 |
| 2 | Qualifications | CET-6 | Certificate | 2 |
| | | TOEFL | 90 Points or Higher | 3 |
| | | IELTS | 6.5 Points or Higher | 3 |
| | | GRE | 1350 Points or Higher | 3 |
| | | National Computer Rank Examination | Certificate (Grade 1/2) | 2 |
| | | Qualifications for Computer and Software Technology Proficiency | Programmer | 2 |
| | | | Senior Programmer | 3 |
| | | | System Analyst | 4 |
| 3 | Competitions | University Level | First Prize | 3 |
| | | | Second Prize | 2 |
| | | | Third Prize | 1 |
| | | Provincial Level | First Prize | 4 |
| | | | Second Prize | 3 |
| | | | Third Prize | 2 |
| | | National Level | First Prize | 6 |
| | | | Second Prize | 4 |
| | | | Third Prize | 3 |
| 4 | Academic Papers | Published in national-level journals | Each paper | 2~3 |
| 5 | Research Programs | Contribution and research capability | Each program | 1~3 |
| 6 | Experiments | Innovation capacity | Each experiment | 1~3 |

## 七、主要课程

## Ⅶ. Main Courses

无机化学 Inorganic Chemistry、分析化学 Analytical Chemistry、物理化学 Physical Chemistry、有机化学 Organic Chemistry、仪器分析 Instrumental Analysis、生物化学 Biochemistry。

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Practicum Module (experiments included)

电工实习 Electrical Engineering Practice、生产实习 Engineering Internship、
课程设计 Course Project、综合化学实验 Advanced Experiments of Chemistry、
毕业设计 Undergraduate Thesis

## 九、教学进程计划表

## Ⅸ. Course Schedule

院（系）：化学与化工学院　　专业：应用化学

School (Department): School of Chemistry and Chemistry Engineering　　Specialty: Applied Chemistry

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必修 required | 0100932 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必修 required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必修 required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必修 required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必修 required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必修 required | 0100741 | 形势与政策 Current Affairs and Policy | 32 | 2 | 14 | | | 1-6 |
| | 必修 required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | 必修 required | 0508453 | 综合英语（一） English | 56 | 3.5 | | | | 1 |
| | 必修 required | 0508463 | 综合英语（二） English | 56 | 3.5 | | | | 2 |
| | 必修 required | 0700011 | 微积分（一）上 Calculus (Ⅰ) | 88 | 5.5 | | | | 1 |
| | 必修 required | 0700012 | 微积分（一）下 Calculus (Ⅰ) | 88 | 5.5 | | | | 2 |
| | 必修 required | 0700048 | 大学物理（一） Physics(Ⅰ) | 64 | 4 | | | | 2 |
| | 必修 required | 0700049 | 大学物理（二） Physics (II) | 64 | 4 | | | | 3 |
| | 必修 required | 0706891 | 物理实验（一） Physics Experiments (Ⅰ) | 32 | 1 | | 32 | | 2 |
| | 必修 required | 0706901 | 物理实验（二） Physics Experiments (II) | 24 | 0.8 | | 24 | | 3 |
| | 必修 required | 0400111 | 大学体育（一） Physical Education(Ⅰ) | 32 | 1 | | | | 1 |
| | 必修 required | 0400121 | 大学体育（二） Physical Education(Ⅱ) | 32 | 1 | | | | 2 |
| | 必修 required | 0400131 | 大学体育（三） Physical Education(Ⅲ) | 32 | 1 | | | | 3 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必修 required | 0400141 | 大学体育（四） Physical Education(Ⅳ) | 32 | 1 | | | | 4 |
| | 必修 required | 1200011 | 军事理论 Military Theory | 16 | 1 | | | | 7 |
| | 必修 required | 0827781 | 计算机及程序设计基础（C++） Fundamental of Computer Programming (C++) | 48 | 3 | | | 24 | 4 |
| | 必修 required | 0700063 | 概率论与数理统计（三） Probability and Statistics (Ⅲ) | 40 | 2.5 | | | | 3 |
| | | | 人文社科类选修课程 Electives in the Humanities and Social Sciences | 160 | 10 | | | | |
| 学科(大类)基础课程 Discipline-related General Courses | 必修 required | 0400022 | 学科（专业）概论 Introduction to Discipline (Specialty) | 16 | 1 | | | | 1 |
| | 必修 required | 0704333 | 基础化学实验（一）（上）（无机化学实验） Experiments of Basic Chemical (Ⅰ) | 40 | 1.3 | | 40 | | 1 |
| | 必修 required | 0704343 | 基础化学实验（一）（下）（无机化学实验） Experiments of Basic Chemical (Ⅰ) | 40 | 1.3 | | 40 | | 2 |
| | 必修 required | 070065a | 基础化学实验（二）（分析化学实验） Experiments of Basic Chemistry (Ⅱ) | 64 | 2 | | 64 | | 2 |
| | 必修 required | 0704373 | 基础化学实验（三）（上）（物理化学实验） Experiments of Basic Chemistry (Ⅲ) | 32 | 1 | | 32 | | 3 |
| | 必修 required | 0704384 | 基础化学实验（三）（下）（物理化学实验） Experiments of Basic Chemistry (Ⅲ) | 48 | 1.5 | | 48 | | 4 |
| | 必修 required | 0704453 | 基础化学实验（四）（上）（有机化学实验） Experiments of Bbasic Chemistry (Ⅳ) | 48 | 1.5 | | 48 | | 3 |
| | 必修 required | 0704464 | 基础化学实验（四）（下）（有机化学实验） Experiments of Bbasic Chemistry (Ⅳ) | 48 | 1.5 | | 48 | | 4 |
| 专业核心课程 Major-specific Core Courses | 必修 required | 0704313 | 无机化学（上） Inorganic Chemistry | 48 | 3 | | | | 1 |
| | 必修 required | 0704323 | 无机化学（下） Inorganic Chemistry | 32 | 2 | | | | 2 |
| | 必修 required | 0700631 | 分析化学 Analytical Chemistry | 56 | 3.5 | | | | 2 |
| | 必修 required | 0704351 | 物理化学（上） Physical Chemistry | 48 | 3 | | | | 3 |
| | 必修 required | 0704361 | 物理化学（下） Physical Chemistry | 64 | 4 | | | | 4 |
| | 必修 required | 0704412 | 有机化学（上） Organic Chemistry | 48 | 3 | | | | 3 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必修 required | 0704422 | 有机化学（下） Organic Chemistry | 48 | 3 | | | | 4 |
| | 必修 required | 0700675 | 化工基础 Principle of Chemical Engineering | 56 | 3.5 | | | | 6 |
| | 必修 required | 0704295 | 化工基础实验 Basic Experiments of Chemical Engineering | 48 | 1.5 | | 48 | | 6 |
| 专业必修课程 Major-specific Courses | 必修 required | 0706941 | 结构化学（上） Structure Chemistry | 32 | 2 | | | | 4 |
| | 必修 required | 0706951 | 结构化学（下） Structure Chemistry | 32 | 2 | | | | 5 |
| | 必修 required | 0700692 | 仪器分析 Instrumental Analysis | 48 | 3 | | | | 5 |
| | 必修 required | 0700698 | 仪器分析实验 Instrumental Analysis Experiments | 32 | 1 | | 32 | | 5 |
| | 必修 required | 0701391 | 生物化学及实验 Biochemistry and Experiments | 56 | 3.5 | | 16 | | 5 |
| | 必修 required | 0700762 | 电化学原理及应用 Electrochemical Principles and Applications | 32 | 2 | | | | 5 |
| | 必修 required | 0701693 | 有机合成及实验 Organic Synthesis and Experiments | 56 | 3.5 | | 32 | | 5 |
| 专业选修课程 Major-specific Electives | | | 共选修 27 学分(跨专业选修课至少选 5 分) | | | | | | |
| | 选修 Elective | 0801665 | 工程制图（一） Engineering Graphics(Ⅰ) | 40 | 2.5 | | | | 1 |
| | 选修 Elective | 0706962 | 有机结构分析 Structural Analysis of Organic Substances | 16 | 1 | | | | 5 |
| | 选修 Elective | 0701385 | 高分子化学 Polymer Chemistry | 72 | 4.5 | | 32 | | 5 |
| | 选修 Elective | 0716803 | 化学英语与文献 Specials English and Literature | 16 | 1 | | | 8 | 6 |
| | 选修 Elective | 0707621 | 腐蚀科学基础 Corrosion Science Fundamental | 16 | 1 | | | | 6 |
| | 选修 Elective | 0707631 | 胶体与表面化学 Colloid and surface chemistry | 16 | 1 | | | | 6 |
| | 选修 Elective | 0700782 | 乳液聚合工艺 Emulsion Polymerization | 16 | 1 | | | | 6 |
| | 选修 Elective | 0707561 | 计算化学 Computational Chemistry | 16 | 1 | | | | 6 |
| | 选修 Elective | 0707571 | 环境分析技术案例课 Environmental Analysis and Technology：case studies | 16 | 1 | | | | 6 |
| | 选修 Elective | 0700873 | 化学电源 Chemical Power Sources | 16 | 1 | | | | 6 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业选修课程 Major-specific Electives | 选修 Elective | 0707641 | 分离膜的制备与应用 Fabrication and Applications of Separation Membranes | 16 | 1 | | | | 6 |
| | 选修 Elective | 0702352 | 生物催化 Biocatalysis | 16 | 1 | | | | 7 |
| | 选修 Elective | 0701415 | 药物化学 Pharmaceutical Chemistry | 16 | 1 | | | | 6 |
| | 选修 Elective | 0701404 | 生物无机化学 Bioinorganic Chemistry | 16 | 1 | | | | 6 |
| | 选修 Elective | 0801213 | 材料化学 Materials Chemistry | 16 | 1 | | | | 7 |
| | 选修 Elective | 0701881 | 高分子物理 Polymer Physics | 32 | 2 | | | | 6 |
| | 选修 Elective | 0705823 | 功能高分子 Functional Polymer | 16 | 1 | | | | 6 |
| | 选修 Elective | 0701425 | 环境化学 Environmental chemistry | 16 | 1 | | | | 7 |
| | 选修 Elective | 0702392 | 催化化学 Catalytical chemistry | 16 | 1 | | | | 6 |
| | 选修 Elective | 0700854 | 电化学工程 Electrochemical Engineering | 16 | 1 | | | | 6 |
| | 选修 Elective | 0702652 | 电化学测量技术 Electrochemical measurement techniques | 32 | 2 | | 8 | | 6 |
| 实践环节 practical training items | 必须 required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必须 required | 1304411 | 电工实习 Electrical Engineering Practice | 2w | 1 | | | | 4 |
| | 必须 required | 1304421 | 课程设计 Course Project | 1w | 0.5 | | | | 6 |
| | 必须 required | 130008a | 生产实习 Engineering Internship | 3w | 1.5 | | | | 6 |
| | 必须 required | 1300024 | 公益劳动 On-campus Voluntary Work | 1w | 0.5 | | | | 7 |
| | 必须 required | 1303882 | 科学训练（综合化学实验） Adanced Experiments of Chemistry | 3w | 1.5 | | | | 7 |
| | 必须 required | 130004b | 毕业设计（论文） Undergraduate Thesis | 20w | 8 | | | | 7-8 |

# 化学工程与工艺专业本科培养计划

# Undergraduate Program for Specialty in Chemical Engineering and Technology

## 一、培养目标

## Ⅰ. Program Objectives

本专业培养掌握宽厚的基础理论和工程基础理论;熟悉本专业领域里的某些专业方向的现状、前沿及其应用；具有从事化工生产的控制与管理、化工产品和过程的研究与开发、化工装置的设计与放大的初步能力；获得工程师的基本训练。成为能在化工、炼油、轻工、冶金、建材、医药、能源等领域里从事科研、设计、技术开发及教学、管理等工作的高级化工专门人才。

This program is intended to establish knowledge in basic theories of fundamentals and engineering, acquaint students being familiar with the current situations, frontier fields and application of chemical engineering. Students will be qualified in control and management of chemical production, research and development of chemical products and process, design and magnification of chemical devices. Students will also accept basic training as an engineer. Graduates of the course will be capable of research, design, technique development, education and management jobs in broad areas as chemical industry, oil refinery, light industry, construction materials, medicines and energy sources.

## 二、基本规格要求

## Ⅱ. Learning outcomes

毕业生应获得以下几方面的知识和能力：

1. 具有良好人文和科学素质，具有社会责任感。

2. 有较为系统和较为宽厚的化学、化工的基础知识、基本理论和基本技能；

3. 具有从事化工生产的控制与管理、化工产品和过程的研究与开发、化工装置的设计与放大的初步能力。

4. 具有独立获取知识和解决问题的能力；

5. 具有一定的计算机知识和应用能力；

6. 较好地掌握一门外国语，能顺利地阅读专业书刊和查阅文献的能力。

Students of the program will acquire：

1. Quality of humanity and science, and also social responsibility.

2. Systematic basic knowledge, theories and skills in chemistry and chemical industry；

3. Capability in control and management of chemical production, research and development of chemical products and process, design and magnification of chemical devices；

4. Ability to learn and solve problems independently；

5. Computer literacy and application skills；

6. Mastery of a foreign language and the ability to employ technical resources and literature.

## 三、培养特色

## Ⅲ. Program Highlights

在精细化工、电化学工程与工艺方向、高分子材料制备及加工等专业方向培养专门人才。

This program aims to nurture talents with specialized knowledge of fine chemical engineering, electrochemical engineering and process, production and process of polymer materials.

## 四、主干学科

## Ⅳ. Academic Discipline

化学 Chemistry、化学工程与技术 Chemical Engineering and Technology

## 五、学制与学位

## Ⅴ. Program Length and Degree

修业年限：四年

Duration: 4 years

授予学位：工学学士

Degrees Conferred: Bachelor of Engineering

## 六、学时与学分

## Ⅵ. Credits Hours and Units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：159.3

Minimum curriculum credits (including courses and practicum): 159.3

其中、专业基础课程、专业核心课程学分不允许用其他课程学分进行冲抵和替代。

Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：5 学分

Minimum Extracurricular Credits: 5

1. 课程体系学时与学分

Course Credits Hours and Units

| 课程类别 | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|
| 通识教育基础课程 | 必修 | 1000/56.8 | 39.1 |
| | 选修 | 160/10 | 6.9 |
| 学科（大类）基础课程 | 必修 | 464/12 | 15.1 |
| 专业核心课程 | 必修 | 496/28 | 19.3 |
| 专业必修课程 | 必修 | 72/4.5 | 3.1 |
| 专业选修课程 | 选修 | 384/24 | 16.5 |
| 合计 | | 2576/145.3 | 100 |

| Course Type | Required/Elective | Hrs/Crs | Percentage (%) |
|---|---|---|---|
| General Education Core Curriculum | Required | 1000/56.8 | 39.1 |
| | Elective | 160/10 | 6.9 |
| Discipline-related General Courses | Required | 464/12 | 15.1 |
| Major-specific Core Courses | Required | 496/28 | 19.3 |
| Major-specific Courses | Required | 72/4.5 | 3.1 |
| Major-specific Electives | Elective | 384/24 | 16.5 |
| Total | | 2576/145.3 | 100 |

2. 集中性实践教学环节周数与学分

Practicum Credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 7.1 |
| 公益劳动 | 必修 | 1/0.5 | 3.6 |
| 金工实习 | 必修 | 2/1 | 7.1 |
| 电工实习 | 必修 | 2/1 | 7.1 |
| 认识实习 | 必修 | 1/0.5 | 3.6 |

续表

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 生产实习（社会实践） | 必修 | 3/1.5 | 10.7 |
| 化工设计（一） | 必修 | 1/0.5 | 3.6 |
| 化工设计（二） | 必修 | 3/1.5 | 10.7 |
| 毕业设计（论文） | 必修 | 20/6.5 | 46.4 |
| 合计 | | 35/14 | 100 |

| Course Title | Required/Elective | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 7.1 |
| On-campus Voluntary Work | Required | 1/0.5 | 3.6 |
| Mechanical Engineering Training | Required | 2/1 | 7.1 |
| Electrical Engineering Practice | Required | 2/1 | 7.1 |
| Cognition Practice | Required | 1/0.5 | 3.6 |
| Engineering internship (Social Practice) | Required | 3/1.5 | 10.7 |
| Design of Chemical Engineering Ⅰ | Required | 1/0.5 | 3.6 |
| Design of Chemical Engineering Ⅱ | Required | 3/1.5 | 10.7 |
| Undergraduate Thesis | Required | 20/6.5 | 46.4 |
| Total | | 35/14 | 100 |

3．课外学分

Extracurricular Credits

| 序号 | 课外活动和社会实践 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 2 | 英语及计算机考试 | 全国大学英语六级考试 | 获六级证书者 | 2 |
| | | 托福考试 | 达 90 分以上者 | 3 |
| | | 雅思考试 | 达 6.5 分以上者 | 3 |
| | | GRE 考试 | 达 1350 分以上者 | 3 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |
| 3 | 竞赛 | 校级 | 获一等奖者；校体育运动会第 1 和第 2 名 | 3 |
| | | | 获二等奖者；校体育运动会第 3、4、5 名 | 2 |
| | | | 获三等奖者；校体育运动会第 6、7、8 名 | 1 |
| | | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 4 | 论文 | 在全国性刊物发表论文 | 每篇论文 | 2-3 |
| 5 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1-3 |
| 6 | 实验 | 视创新情况 | 每项 | 1-3 |

| No. | Activities | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Activities of Social Practice | Submitting a report and passing the oral defense | | 1 |
| | | Individuals awarded “Active Participant” / Teams awarded “Excellent Performance” by HUST or Hubei Youth League Committee | | 2 |
| 2 | Qualifications | CET-6 | Certificate | 2 |
| | | TOEFL | 90 Points or Higher | 3 |
| | | IELTS | 6.5 Points or Higher | 3 |
| | | GRE | 1350 Points or Higher | 3 |
| | | National Computer Rank Examination | Certificate (Grade 1/2) | 2 |
| | | Qualifications for Computer and Software Technology Proficiency | Programmer | 2 |
| | | | Senior Programmer | 3 |
| | | | System Analyst | 4 |
| 3 | Competitions | University Level | First Prize | 3 |
| | | | Second Prize | 2 |
| | | | Third Prize | 1 |
| | | Provincial Level | First Prize | 4 |
| | | | Second Prize | 3 |
| | | | Third Prize | 2 |
| | | National Level | First Prize | 6 |
| | | | Second Prize | 4 |
| | | | Third Prize | 3 |
| 4 | Academic Papers | Published in national-level journals | Each paper | 2－3 |
| 5 | Research Programs | Contribution and research capability | Each program | 1－3 |
| 6 | Experiments | Innovation capacity | Each experiment | 1－3 |

## 七、主要课程

## Ⅶ. Main Courses

物理化学 Physical Chemistry、化工热力学 Thermal dynamics of chemical Engineering、化学反应工程 Engineering of Chemical Reaction、分离工程 Separation Engineering、化工过程分析与开发 Analysis and Development of Chemical Processes、化工设计 Design of Chemical Engineering、化工设备基础 Basic of Chemical Equipment。

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Practicum Module (experiments included)

军事训练 Military Training、公益劳动 Laboring for Public Benefit、
金工实习 Mechanical Engineering Training、电工实习 Electrical Engineering Practice、
生产实习 Engineering internship (Social Practice)、课程设计 Course Project、
毕业设计 Undergraduate Thesis。

## 九、教学进程计划表

## Ⅸ. Course Schedule

院（系）：化学与化工学院　　专业：化学工程与工艺

School(Department): School of Chemistry and Chemistry Engineering　　Specialty: Chemical Engineering and Technology

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必修 required | 0100932 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必修 required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必修 required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必修 required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必修 required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必修 required | 0100741 | 形势与政策 Current Affairs and Policy | 32 | 2 | 14 | | | 1-6 |
| | 必修 required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | 必修 required | 0508453 | 综合英语（一） English （Ⅰ） | 56 | 3.5 | | | | 1 |
| | 必修 required | 0508463 | 综合英语（二） English （Ⅱ） | 56 | 3.5 | | | | 2 |
| | 必修 required | 0700011 | 微积分（一）上 Calculus (Ⅰ) | 88 | 5.5 | | | | 1 |
| | 必修 required | 0700012 | 微积分（一）下 Calculus(Ⅰ) | 88 | 5.5 | | | | 2 |
| | 必修 required | 0700048 | 大学物理（一） Physics(Ⅰ) | 64 | 4 | | | | 2 |
| | 必修 required | 0700049 | 大学物理（二） Physics (II) | 64 | 4 | | | | 3 |
| | 必修 required | 0706891 | 物理实验（一） Physics Experiments (Ⅰ) | 32 | 1 | | 32 | | 2 |
| | 必修 required | 0706901 | 物理实验（二） Physics Experiments (II) | 24 | 0.8 | | 24 | | 3 |
| | 必修 required | 0400111 | 大学体育（一） Physical Education(Ⅰ) | 32 | 1 | | | | 1 |
| | 必修 required | 0400121 | 大学体育（二） Physical Education(Ⅱ) | 32 | 1 | | | | 2 |
| | 必修 required | 0400131 | 大学体育（三） Physical Education(Ⅲ) | 32 | 1 | | | | 3 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必修 required | 0400141 | 大学体育（四） Physical Education(Ⅳ) | 32 | 1 | | | | 4 |
| | 必修 required | 1200011 | 军事理论 Military Theory | 16 | 1 | | | | 7 |
| | 必修 required | 0827781 | 计算机及程序设计基础（C++） Fundamental of Computer Programming (C++) | 48 | 3 | | | 24 | 4 |
| | 必修 required | 0700063 | 概率论与数理统计（三） Probability and Statistics (Ⅲ) | 40 | 2.5 | | | | 3 |
| | 必修 required | 0700051 | 线性代数（一） Linear Algebra (Ⅰ) | 40 | 2.5 | | | | 2 |
| | | | 人文社科类选修课程 Electives in the Humanities and Social Sciences | 160 | 10 | | | | |
| 学科(大类）基础课程 Discipline-related General Courses | 必修 required | 0400022 | 学科（专业）概论 Introduction to Discipline (Specialty) | 16 | 1 | | | | 1 |
| | 必修 required | 0700138 | 无机化学 Inorganic Chemistry | 48 | 3 | | | | 1 |
| | 必修 required | 0700634 | 分析化学 Analytical Chemistry | 32 | 2 | | | | 2 |
| | 必修 required | 070441a | 有机化学（上） Organic chemistry(Ⅰ) | 32 | 2 | | | | 3 |
| | 必修 required | 0704423 | 有机化学（下） Organic chemistry (Ⅱ) | 32 | 2 | | | | 4 |
| | 必修 required | 0800105 | 电工电子学（一） Electronics in Electrical Engineering (Ⅰ) | 40 | 2.5 | | | | 4 |
| | 必修 required | 0818953 | 计算机控制原理与技术 Computer Controlling Technique | 40 | 2.5 | | | | 5 |
| | 必修 required | 0703582 | 化学实验（一）（无机化学实验） Chemical Experiments (Ⅰ) | 40 | 1.3 | | 40 | | 1 |
| | 必修 required | 0703592 | 化学实验（二）（分析化学实验） Chemical Experiments (Ⅱ) | 40 | 1.3 | | 40 | | 2 |
| | 必修 required | 0706981 | 化学实验（三）上（物理化学实验） Chemical Experiments (Ⅲ) | 32 | 1 | | 32 | | 3 |
| | 必修 required | 0706991 | 化学实验（三）下（物理化学实验） Chemical Experiments (Ⅲ) | 32 | 1 | | 32 | | 4 |
| | 必修 required | 0707001 | 化学实验（四）上（有机化学实验） Chemical Experiments (Ⅳ) | 48 | 1.5 | | 48 | | 3 |
| | 必修 required | 0707012 | 化学实验（四）（下）（有机化学实验） Chemical Experiments (Ⅳ) | 32 | 1 | | 32 | | 4 |
| | 必修 required | 0704353 | 物理化学（上） Physical chemistry(Ⅰ) | 56 | 3.5 | | | | 3 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业核心课程 Major-specific Core Courses | 必修 required | 0704363 | 物理化学（下） Physical chemistry (Ⅱ) | 40 | 2.5 | | | | 4 |
| | 必修 required | 0704951 | 化工原理（上） Principle of Chemical Engineering(Ⅰ) | 48 | 3 | | | | 4 |
| | 必修 required | 0704961 | 化工原理（下） Principle of Chemical Engineering (Ⅱ) | 48 | 3 | | | | 5 |
| | 必修 required | 0704433 | 化工基础实验 Basic experiments of Chemical Engineering | 48 | 1.5 | | 48 | | 5 |
| | 必修 required | 0703991 | 化工专业实验 Experiments of Chemical Engineering | 48 | 1.5 | | 48 | | 6 |
| | 必修 required | 0701534 | 化工热力学 Thermal Dynamics of Chemical Engineering | 32 | 2 | | | | 4 |
| | 必修 required | 0703971 | 化工工艺学 Chemical Technology | 32 | 2 | | | | 5 |
| | 必修 required | 0700683 | 化学反应工程 Engineering of Chemical Reactions | 48 | 3 | | | | 5 |
| | 必修 required | 0705012 | 化工设备基础 Basic of Chemical Equipment | 32 | 2 | | | | 6 |
| | 必修 required | 0703961 | 化工过程分析与开发 Analysis and development of Chemical processes | 32 | 2 | | | | 6 |
| | 必修 required | 0700702 | 化工设计 Design of Chemical Engineering | 32 | 2 | | | | 6 |
| 专业必修课程 Major-specific Courses | 必修 required | 0801665 | 工程制图（一） Engineering Graphics(Ⅰ) | 40 | 2.5 | | | | 1 |
| | 必修 required | 0707651 | 化工安全与环保 Chemical Safety & Environment Protection | 32 | 2 | | | | 6 |
| 专业选修课程 Major-specific Electives | | | 共选修 24 学分（外专业选修课至少选 4 分） | | | | | | |
| | 选修 Elective | 0701384 | 高分子化学 Polymer chemistry and Physics | 40 | 2.5 | | | | 5 |
| | 选修 Elective | 0705891 | 高分子实验 Experiments of Polymer chemistry | 32 | 1 | | 32 | | 5 |
| | 选修 Elective | 0700692 | 仪器分析 Instrumental analysis and experiments | 48 | 3 | | 16 | | 5 |
| | 选修 Elective | 0809222 | 化工仪表及自动化 Instruments of Chemical Engineering | 32 | 2 | | | | 6 |
| | 选修 Elective | 0703771 | 分离工程 Separation engineering | 32 | 2 | | | | 6 |
| | 选修 Elective | 0828712 | 化工英语与文献 Professional English and Literature | 16 | 1 | | | 8 | 5 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业选修课程 Major-specific Electives | 选修 Elective | 0702652 | 电化学测量技术 Electrochemical Measurements and Sensors | 32 | 2 | | 8 | | 6 |
| | 选修 Elective | 0701881 | 高分子物理 Polymer Physics | 32 | 2 | | | | 6 |
| | 选修 Elective | 0716813 | 专业综合实验（A） Speciality Comprehend experiments | 48 | 1.5 | | 48 | | 7 |
| | 选修 Elective | 0707773 | 专业综合实验（B） Speciality Comprehend experiments | 48 | 1.5 | | 48 | | 7 |
| | 选修 Elective | 0707783 | 专业综合实验（C） Speciality Comprehend experiments | 48 | 1.5 | | 48 | | 7 |
| | 选修 Elective | 0704992 | 绿色化工 Green Chemical Engineering | 16 | 1 | | | | 6 |
| | 选修 Elective | 0707022 | 化学制药 Chemcial pharmaceutical | 16 | 1 | | | | 7 |
| | 选修 Elective | 0700753 | 工业催化 Industrial catalysis | 16 | 1 | | | | 6 |
| | 选修 Elective | 0700873 | 化学电源 Chemical Power Sources | 16 | 1 | | | | 6 |
| | 选修 Elective | 0707661 | 腐蚀工程概论 Introduction to Corrosion Engineering | 16 | 1 | | | | 6 |
| | 选修 Elective | 0707621 | 腐蚀科学基础 Corrosion Science Fundamental | 16 | 1 | | | | 6 |
| | 选修 Elective | 0707551 | 纳米材料与催化 Nano material and Catalysis | 16 | 1 | | | | 6 |
| | 选修 Elective | 0700782 | 乳液聚合工艺 Emulsion Polymerization | 16 | 1 | | | | 6 |
| | 选修 Elective | 0707641 | 分离膜的制备与应用 Fabrication and applications of separation membranes | 16 | 1 | | | | 6 |
| | 选修 Elective | 0700854 | 电化学工程 Electrochemical engineering | 16 | 1 | | | | 6 |
| | 选修 Elective | 0707032 | 高分子合成及材料制备新方法 New Methods of Polymer Synthesis and Materials Preparation | 16 | 1 | | | | 6 |
| | 选修 Elective | 0704042 | 高分子材料成型加工基础 Principles of Polymer Materials Processing | 16 | 1 | | | | 7 |
| | 选修 Elective | 0700792 | 特种高分子材料 Special Polymer | 16 | 1 | | | | 6 |
| | 选修 Elective | 0828722 | 高分子材料合成工艺学 Synthesis Process of Polymers | 16 | 1 | | | | 6 |
| | 必须 required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必须 required | 1304411 | 电工实习 Electrical Engineering Practice | 2w | 1 | | | | 4 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 实践环节 practical training items | 必须 required | 1306241 | 化工设计（一） Design of Chemical Engineering Ⅰ | 1w | 0.5 | | | | 5 |
| | 必须 required | 1306251 | 化工设计（二） Design of Chemical Engineering II | 3w | 1.5 | | | | 7 |
| | 必须 required | 130010c | 认识实习 Cognition Practice | 1w | 0.5 | | | | 4 |
| | 必须 required | 130008a | 生产实习 Engineering Internship | 3w | 1.5 | | | | 6 |
| | 必须 required | 1300024 | 公益劳动 On-campus Voluntary Work | 1w | 0.5 | | | | 7 |
| | 必须 required | 1302331 | 金工实习 Mechanical Engineering Training | 2w | 1 | | | | 3 |
| | 必须 required | 130004b | 毕业设计（论文） Undergraduate Thesis | 20w | 6.5 | | | | 7-8 |

# 化学本科专业培养计划

# Undergraduate Program for Specialty in Chemistry

## 一、培养目标

## Ⅰ. Program Objectives

本专业培养掌握化学基础理论、基本实验方法和技能，受到基础研究和应用基础研究方面的科学思维和科学实验的基本训练，具有一定的基础研究、应用基础研究及科技管理的综合能力。培养基础扎实、适应能力和知识更新能力较强的高级专业人才。在化学、化工、能源、材料、生物、光电子、环境、医药、冶金、食品及劳动安全等部门从事科研、教学、技术及管理工作的研究型和复合型人才。

The specialty is aimed at the training of comprehensive abilities including basic theory of chemistry, experimental skills and techniques, and basic training of scientific thought and practice in the fields of fundamental and applied researches. The specialty is also aimed at the training of advanced professionals with strong fundamental knowledge, adaptive capacity and ability of knowledge update. The trained professionals will be inter-disciplinary talent who is engaged in scientific research, education, technology and management in the fields of chemistry, chemical engineering, energy resource, materials, biology, photoelectric, environment, medicine, metallurgy, foods and labor safety etc.

## 二、基本规格要求

## Ⅱ. Learning outcomes

毕业生应获得以下几方面的知识和能力：

1. 具有良好人文和科学素质，具有社会责任感。
2. 具有扎实的数学与物理等方面的基础理论和基本知识。
3. 掌握化学基础理论知识和基本实验技能，了解化学的前沿领域、应用前景和最新发展动态。
4. 掌握一门外语，掌握中外文资料查询、文献检索及运用现代信息的基本方法。
5. 具有较强的创新意识和实践能力，有团队合作精神。

Students of the program will acquire：

1. Quality of humanity and science, and also social responsibility.
2. Systematically basic theory and knowledge of mathematics and physics.
3. Basic theory and experimental skills of chemistry, and well know the frontier, potential application and latest development of chemistry.
4. A foreign language and the ability of literature search by using the methods of modern information technology.
5. Consciousness of innovation and practical ability, and team spirit.

## 三、培养特色

## Ⅲ. Program Highlights

培养具有创新意识和扎实的化学基础知识与实践技能，主要从事科学研究的专门人才。

This program aims to nurture professional chemists with solid foundation of chemistry, innovative thinking and practical ability.

## 四、主干学科

## Ⅳ. Academic Discipline

化学 Chemistry

## 五、学制与学位

## Ⅴ. Program Length and Degree

修业年限：四年

Duration: 4 years

授予学位：理学学士

Degrees Conferred: Bachelor of Science

## 六、学时与学分

## Ⅵ. Credits Hours and Units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：159.6

Minimum curriculum credits (including courses and practicum): 159.6

其中、专业基础课程、专业核心课程学分不允许用其他课程学分进行冲抵和替代。

Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：5

Minimum Extracurricular Credits: 5

1. 课程体系学时与学分

Course Credits Hours and Units

| 课程类别 | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|
| 通识教育基础课程 | 必修 | 960/54.3 | 36.9 |
| | 选修 | 160/10 | 6.8 |
| 学科(大类)基础课程 | 必修 | 432/14.3 | 9.7 |
| 专业核心课程 | 必修 | 528/33 | 22.4 |
| 专业必修课程 | 必修 | 184/9.5 | 6.5 |
| 专业选修课程 | 选修 | 416/26 | 17.7 |
| 合计 | | 2680/147.1 | 100 |

| Course Type | Required/Elective | Hrs/Crs | Percentage (%) |
|---|---|---|---|
| General Education Core Curriculum | Required | 960/54.3 | 36.9 |
| | Elective | 160/10 | 6.8 |
| Discipline-related General Courses | Required | 432/14.3 | 9.7 |
| Major-specific Core Courses | Required | 528/33 | 22.4 |
| Major-specific Courses | Required | 184/9.5 | 6.5 |
| Major-specific Electives | Elective | 416/26 | 17.7 |
| Total | | 2680/147.1 | 100 |

2. 集中性实践教学环节周数与学分

Practicum Credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 8 |
| 公益劳动 | 必修 | 1/0.5 | 4 |
| 创新实践 | 必修 | 3/1.5 | 12 |
| 科学技能训练 | 必修 | 3/1.5 | 12 |
| 毕业设计（论文） | 必修 | 20/8 | 64 |
| 合计 | | 29/12.5 | 100 |

| Course Title | Required/Elective | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 8 |
| Laboring for Public Benefit | Required | 1/.05 | 4 |
| Innovation practice | Required | 3/1.5 | 12 |
| Scientific Research Training (Comprehensive Chemical Experiments) | Required | 3/1.5 | 12 |
| Undergraduate Thesis | Required | 20/8 | 64 |
| Total | | 29/12.5 | 100 |

3. 课外学分

Extracurricular Credits

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 2 | 英语及计算机考试 | 全国大学英语六级考试 | 获六级证书者 | 2 |
| | | 托福考试 | 达 90 分以上者 | 3 |
| | | 雅思考试 | 达 6.5 分以上者 | 3 |
| | | GRE 考试 | 达 1350 分以上者 | 3 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |
| 3 | 竞赛 | 校级 | 获一等奖者；校体育运动会第 1、2 名 | 3 |
| | | | 获二等奖者；校体育运动会第 3、4、5 名 | 2 |
| | | | 获三等奖者；校体育运动会第 6、7、8 名 | 1 |
| | | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 4 | 论文 | 在全国性刊物发表论文 | 每篇论文 | 2~3 |
| 5 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1~3 |
| 6 | 实验 | 视创新情况 | 每项 | 1~3 |

| No. | Activities | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Activities of Social Practice | Submitting a report and passing the oral defense | | 1 |
| | | Individuals awarded “Active Participant” / Teams awarded “Excellent Performance” by HUST or Hubei Youth League Committee | | 2 |
| 2 | Qualifications | CET-6 | Certificate | 2 |
| | | TOEFL | 90 Points or Higher | 3 |
| | | IELTS | 6.5 Points or Higher | 3 |
| | | GRE | 1350 Points or Higher | 3 |
| | | National Computer Rank Examination | Certificate (Grade 1/2) | 2 |
| | | Qualifications for Computer and Software Technology Proficiency | Programmer | 2 |
| | | | Senior Programmer | 3 |
| | | | System Analyst | 4 |
| 3 | Competitions | University Level | First Prize | 3 |
| | | | Second Prize | 2 |
| | | | Third Prize | 1 |
| | | Provincial Level | First Prize | 4 |
| | | | Second Prize | 3 |
| | | | Third Prize | 2 |
| | | National Level | First Prize | 6 |
| | | | Second Prize | 4 |
| | | | Third Prize | 3 |
| 4 | Academic Papers | Published in national-level journals | Each paper | 2~3 |
| 5 | Research Programs | Contribution and research capability | Each program | 1~3 |
| 6 | Experiments | Innovation capacity | Each experiment | 1~3 |

## 七、主要课程

## Ⅶ. Main Courses

无机化学 Inorganic Chemistry、分析化学 Analytical Chemistry、物理化学 Physical Chemistry、有机化学 Organic Chemistry、仪器分析 Instrumental Analysis、结构化学 Structure Chemistry、高分子化学 Polymer Chemistry

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Practicum Module (experiments included)

创新实践 Innovation practice、科研技能训练 Scientific Research Training、毕业设计 Undergraduate Thesis

## 九、教学进程计划表

## Ⅸ. Course Schedule

院（系）：化学与化工学院　　专业：化学

School (Department): School of Chemistry and Chemistry Engineering　　Specialty: Chemistry

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必修 required | 0100932 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必修 required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必修 required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必修 required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必修 required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必修 required | 0100741 | 形势与政策 Current Affairs and Policy | 32 | 2 | 14 | | | 1-6 |
| | 必修 required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | 必修 required | 0508453 | 综合英语（一） English(Ⅰ) | 56 | 3.5 | | | | 1 |
| | 必修 required | 0508463 | 综合英语（二） English(II) | 56 | 3.5 | | | | 2 |
| | 必修 required | 0700011 | 微积分（一）上 Calculus (Ⅰ) | 88 | 5.5 | | | | 1 |
| | 必修 required | 0700012 | 微积分（一）下 Calculus (Ⅰ) | 88 | 5.5 | | | | 2 |
| | 必修 required | 0700048 | 大学物理（一） Physics(Ⅰ) | 64 | 4 | | | | 2 |
| | 必修 required | 0700049 | 大学物理（二） Physics (II) | 64 | 4 | | | | 3 |
| | 必修 required | 0706891 | 物理实验（一） Physics Experiments (Ⅰ) | 32 | 1 | | 32 | | 2 |
| | 必修 required | 0706901 | 物理实验（二） Physics Experiments (II) | 24 | 0.8 | | 24 | | 3 |
| | 必修 required | 0400111 | 大学体育（一） Physical Education(Ⅰ) | 32 | 1 | | | | 1 |
| | 必修 required | 0400121 | 大学体育（二） Physical Education(Ⅱ) | 32 | 1 | | | | 2 |
| | 必修 required | 0400131 | 大学体育（三） Physical Education(Ⅲ) | 32 | 1 | | | | 3 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必修 required | 0400141 | 大学体育（四） Physical Education(Ⅳ) | 32 | 1 | | | | 4 |
| | 必修 required | 1200011 | 军事理论 Military Theory | 16 | 1 | | | | 7 |
| | 必修 required | 0827781 | 计算机及程序设计基础（C++） Fundamental of Computer Programming (C++) | 48 | 3 | | | 24 | 4 |
| | 必修 required | 0700063 | 概率论与数理统计（三） Probability and Statistics(Ⅲ) | 40 | 2.5 | | | | 3 |
| | | | 人文社科类选修课程 Electives in the Humanities and Social Sciences | 160 | 10 | | | | |
| 学科(大类）基础课程 Discipline-related General Courses | 必修 required | 0400022 | 学科（专业）概论 Introduction to Discipline (Specialty) | 16 | 1 | | | | 1 |
| | 必修 required | 0704334 | 基础化学实验（一）（上）（无机化学实验） Experiments of Basic Chemical (Ⅰ) | 56 | 1.8 | | 56 | | 1 |
| | 必修 required | 0704344 | 基础化学实验（一）（下）（无机化学实验） Experiments of Basic Chemical (Ⅰ) | 56 | 1.8 | | 56 | | 2 |
| | 必修 required | 070065b | 基础化学实验（二）（上）（分析化学实验） Experiments of Basic Chemistry (Ⅱ) | 48 | 1.5 | | 48 | | 2 |
| | 必修 required | 070066a | 基础化学实验（二）（下）（分析化学实验） Experiments of Basic Chemistry (Ⅱ) | 32 | 1 | | 32 | | 3 |
| | 必修 required | 0704374 | 基础化学实验（三）（上）（物理化学实验） Experiments of Basic Chemistry (Ⅲ) | 56 | 1.8 | | 56 | | 3 |
| | 必修 required | 0704385 | 基础化学实验（三）（下）（物理化学实验） Experiments of Basic Chemistry (Ⅲ) | 56 | 1.8 | | 56 | | 4 |
| | 必修 required | 0704454 | 基础化学实验（四）（上）（有机化学实验） Experiments of Basic Chemistry (Ⅳ) | 56 | 1.8 | | 56 | | 3 |
| | 必修 required | 0707371 | 基础化学实验（四）（下）（有机化学实验） Experiments of Basic Chemistry (Ⅳ) | 56 | 1.8 | | 56 | | 4 |
| 专业核心课程 Major-specific Core Courses | 必修 required | 0704312 | 无机化学（上） Inorganic Chemistry | 64 | 4 | | | | 1 |
| | 必修 required | 0704322 | 无机化学（下） Inorganic Chemistry | 40 | 2.5 | | | | 2 |
| | 必修 required | 0700631 | 分析化学 Analytical Chemistry | 56 | 3.5 | | | | 2 |
| | 必修 required | 0704353 | 物理化学（上） Physical Chemistry | 56 | 3.5 | | | | 3 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业核心课程 Major- specific Core Courses | 必修 required | 0704364 | 物理化学（下） Physical Chemistry | 56 | 3.5 | | | | 4 |
| | 必修 required | 0704413 | 有机化学（上） Organic Chemistry | 56 | 3.5 | | | | 3 |
| | 必修 required | 0704424 | 有机化学（下） Organic Chemistry | 56 | 3.5 | | | | 4 |
| | 必修 required | 0706941 | 结构化学(上) Structure Chemistry | 32 | 2 | | | | 4 |
| | 必修 required | 0706951 | 结构化学（下） Structure Chemistry | 32 | 2 | | | | 5 |
| | 必修 required | 0707111 | 高分子化学及实验 Polymer chemistry and experiment | 80 | 5 | | 32 | | 5 |
| 专业必修课程 Major-specific Courses | 必修 required | 0700696 | 仪器分析 Instrumental Analysis | 56 | 3.5 | | | | 5 |
| | 必修 required | 0700699 | 仪器分析实验 Instrumental Analysis Experiments | 64 | 2 | | 64 | | 5 |
| | 必修 required | 0707071 | 无机化学研讨课 Inorganic Chemistry Seminar | 16 | 1 | | | | 4 |
| | 必修 required | 0707081 | 分析化学研讨课 Analytical Chemistry Seminar | 16 | 1 | | | | 4 |
| | 必修 required | 0707091 | 物理化学研讨课 Physical chemistry Seminar | 16 | 1 | | | | 5 |
| | 必修 required | 0707101 | 有机化学研讨课 Organic Chemistry Seminar | 16 | 1 | | | | 5 |
| 专业选修课程 Major-specific Electives | | | 共选修 26 学分（其中含跨专业选修课至少 4 分） | | | | | | |
| | 选修 Elective | 0707381 | 化工基础 Chemical Engineering Basis | 56 | 3.5 | | | | 5 |
| | 选修 Elective | 0704294 | 化工原理实验 Principle of Chemical Engineering | 32 | 1 | | 32 | | 5 |
| | 选修 Elective | 0701342 | 综合化学实验 Comprehensive chemical experiments | 96 | 3 | | 96 | | 6 |
| | 选修 Elective | 0707052 | 化学信息学 Chemical Information | 48 | 3 | | | | 6 |
| | 选修 Elective | 0701391 | 生物化学及实验 Biological chemistry and experiment | 56 | 3.5 | | 16 | | 5 |
| | 选修 Elective | 0716803 | 化学英语与文献 Specials English and Literature | 16 | 1 | | | 8 | 6 |
| | 选修 Elective | 0707121 | 化学前沿（进展） Frontier in Chemistry | 16 | 1 | | | | 3-6 |
| | 选修 Elective | 0702392 | 催化化学 Catalytical chemistry | 16 | 1 | | | | 6 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业选修课程 Major-specific Electives | 选修 Elective | 0700763 | 电化学原理及应用 The Principle and Application of Electrochemistry | 16 | 1 | | | | 6 |
| | 选修 Elective | 0707132 | 现代分析技术 Modern Analytical technology | 16 | 1 | | | | 6 |
| | 选修 Elective | 0710671 | 化学生物学 Chemical Biology | 16 | 1 | | | | 6 |
| | 选修 Elective | 0701415 | 药物化学 Pharmaceutical Chemistry | 16 | 1 | | | | 6 |
| | 选修 Elective | 0706962 | 有机结构分析 Organic structure analysis | 16 | 1 | | | | 5 |
| | 选修 Elective | 0707152 | 有机合成设计 Organic synthesis design | 16 | 1 | | | | 5 |
| | 选修 Elective | 0701881 | 高分子物理 Polymer Physics | 32 | 2 | | | | 6 |
| | 选修 Elective | 0705823 | 功能高分子 Functional polymer | 16 | 1 | | | | 6 |
| | 选修 Elective | 0801213 | 材料化学 Material Chemistry | 16 | 1 | | | | 7 |
| | 选修 Elective | 0707162 | 能源化学 Energy Chemistry | 16 | 1 | | | | 6 |
| | 选修 Elective | 0707541 | 聚合物材料的表面与界面 Polymer Surface and Interface | 16 | 1 | | | | 6 |
| | 选修 Elective | 0700782 | 乳液聚合工艺 Emulsion Polymerization | 16 | 1 | | | | 6 |
| | 选修 Elective | 0707561 | 计算化学 Computational Chemistry | 16 | 1 | | | | 6 |
| | 选修 Elective | 0707571 | 环境分析技术案例课 Environmental Analysis and Technology : case studies | 16 | 1 | | | | 6 |
| | 选修 Elective | 0707581 | 固体纳米材料常用表征技术 Characterization Technique for Solid Nanomaterials | 16 | 1 | | | | 7 |
| | 选修 Elective | 0707591 | 超分子化学 Supramolecular chemistry | 16 | 1 | | | | 6 |
| | 选修 Elective | 0707601 | 光催化 Photocatalysis | 16 | 1 | | | | 6 |
| | 选修 Elective | 0707551 | 纳米材料与催化 Nano material and Catalysis | 16 | 1 | | | | 5 |
| | 选修 Elective | 0701425 | 环境化学 Environmental chemistry | 16 | 1 | | | | 7 |
| | 必修 required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 实践环节 practical training items | 必修 required | 1304431 | 创新实践 Innovation practice | 3w | 1.5 | | | | 2-6 |
| | 必修 required | 1300024 | 公益劳动 On-campus Voluntary Work | 1w | 0.5 | | | | 7 |
| | 必修 required | 1302631 | 科学技能训练 Scientific Training | 3w | 1.5 | | | | 7 |
| | 必修 required | 130004b | 毕业论文 Undergraduate Thesis | 20w | 8 | | | | 7-8 |

# 生命科学与技术学院

生命科学与技术学院始建于 1980 年，下设生物医学工程系、生物技术系、遗传与发育生物学系、生物物理与分子生物学系、生物化学与分子生物学系和纳米医药与生物制药系，拥有两个国家重点学科，两个一级学科博士点和博士后科研流动站，国家生命科学与技术人才培养基地，国家理科基础科学研究和教学人才培养基地，湖北省生物学实验教学示范中心。学院现有 10 个博士点，13 个硕士点和 5 个本科专业：生物医学工程、生物技术、生物信息学、生物科学和生物制药。

学院科研实力突出，建成了国家纳米药物工程技术研究中心、武汉国家生物产业基地生物医药技术服务平台、科技部基因工程“国际科技合作基地”、生物医学光子学教育部重点实验室、分子生物物理教育部重点实验室、图像信息处理与智能控制教育部重点实验室（共建）、生物信息与分子成像湖北省重点实验室等国家和省部级科研训练平台。同时，拥有多个国际合作交流及人才培养平台，如中德马普生物物理与生物化学合作实验室、中英作物基因工程和基因组学联合实验室、中美人类基因组合作研究中心、中法联合药物筛选及开发中心、中韩生物材料联合研究中心等。

学院师资力量雄厚，拥有一支以留学归国人员为主要学术带头人的教师队伍，现有教职员工 133 人，其中教授 43 人、副教授 47 人，国家千人计划获得者 4 人，“长江学者奖励计划”特聘教授和讲座教授 7 名，国家杰出青年基金获得者 4 人，优秀青年杰出基金 1 人，湖北教学名师 2 人，教育部跨（新）世纪优秀人才 17 人，省楚天学者特聘教授 5 人，楚天学子 6 人。学院现有在读学生 2170 人，其中本科生 1262 人，硕士研究生 462 人，博士研究生 439 人。

# 生物医学工程专业本科培养计划

# Undergraduate Program for Specialty in Biomedical Engineering

## 一、培养目标

### Ⅰ. Program Objective

培养德、智、体全面发展，基础理论扎实、知识面宽、实践能力强、综合素质高、适应新世纪生物医学工程产业，包括医学成像仪器、生物医学光子学、生物材料与组织工程、生物医学分析等发展需求，在生物医学信息的获取、处理、开发与利用等专业领域具有突出特色、且具国际竞争力的高素质人才。毕业生既能从事生命科学基础研究及医学成像与测量仪器、医疗器械、生命科学仪器设计与开发，又能从事电子、信息与成像仪器等相关产业和部门的研发及管理工作等。

This program educates undergraduates based on the following objectives: to get balanced development among moral, intelligent and physical abilities; to foster solid grounded in basic theory, wide-ranged knowledge, strong practical ability, high comprehensive quality; to adapt to the demand of the new century development of biomedical engineering industry, including biomedical imaging instruments, biomedical optics, biomaterials and tissue engineering, and biomedical analysis; also aiming at preparing all-rounded, high-quality talents with international competence in biomedical information collecting, processing, development and using. The graduates can be engaged in research on the fundamentals of life science as well as design and development of medical imaging and measurement instruments, medical devices and life science instruments. Meanwhile, the graduates can take the job of management, research and development in the industries and departments of electronics, information and imaging devices.

## 二、基本规格要求

### Ⅱ. Learning Outcomes

本专业学生应掌握电子技术、光电信息技术、计算机技术及生命科学等的基本理论和基本知识，并受到工程技术方面的良好训练，毕业后具备从事生物医学工程研究和开发的基本素质和基本技能。

Students should have command of essential theories and knowledge in electronic technology, photonic technology, computer technology and life sciences, and to be well educated in engineering technology. The graduates are expected to acquire basic abilities and skills in biomedical engineering research and development.

毕业生应获得以下几方面的知识和能力：

1. 扎实的数理与生命科学基础；
2. 电子与信息工程的基本理论和方法；
3. 生物医学工程领域理论问题和解决实际问题的能力；
4. 较强的英语语言能力；
5. 文献检索、资料查询的方法和撰写科学论文的能力；
6. 较好的人文社科知识和人文素质，以及较强的协调、组织能力；
7. 较强的创新精神。

Students of this program will acquire:

1. Sound grounding in mathematics, physics and life sciences;

2. Principles and method of electronics and information technology ;

3. Research and problem solving skills ;

4. Strong English language ability ;

5. Ability in document searching, data querying and thesis writing ;

6. Attainment in humanities & art, cooperative and organizational skills ;

7. Sense of creation and innovation.

## 三、培养特色

## Ⅲ. Program Highlights

以电子与信息工程(包括光电子)、材料学及生命科学为基础，以生物医学信息的获取、处理、开发与利用为核心，面向广义的生物医学工程产业。坚持理工医结合，重视基础理论，强调宽口径培养，着眼全面提高学生的综合素质。加强实践教育，增强创新能力。

This program takes electronics and information engineering including optoelectronics, hylology and life sciences as its foundation; takes the biomedical information acquisition, processing, development and utilization as the core; faces generalized biomedical engineering industry; persists science, engineering and medicine well combined; emphasizes a thorough grounding in the theoretical principles and knowledge, enlarges the specialized field, focuses on student's comprehensive quality, strengthens practical education, enhances innovation ability.

## 四、主干学科

## Ⅳ. Main Disciplines

生物医学工程 Biomedical Engineering

## 五、学制与学位

## Ⅴ. Program Length and Degree

学制：四年

Duration: 4 years

授予学位：工学学士

Degrees Conferred: Bachelor of Engineering

## 六、学时与学分

## VI. Credits Hours and Units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：160 学分。其中，专业基础课程、专业核心课程学分不允许用其他课程学分进行学分冲抵和替代。

Minimum Credits of Curricular (Comprising course system and intensified internship practical training) : 160 credits. Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：5 学分。

Minimum Extracurricular Credits : 5credits.

1. 课程体系学时与学分

Course Credits Hours and Units

| 课程类别 | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|
| 通识教育基础课程 | 必修 | 1080/61.8 | 43.2 |
| | 选修 | 160/10 | 7.0 |
| 学科大类基础课程 | 必修 | 752/42.9 | 30.0 |

续表

| 课程类别 | | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|---|
| 专业课程 | 专业核心课程 | 必修 | 288/15.8 | 11.1 |
| | 专业方向课程 | 选修 | 200/12.5 | 8.7 |
| 合计 | | | 2480/143 | 100 |

| Course Type | | Required/Elective | Hrs/Crs | Percentage (%) |
|---|---|---|---|---|
| General Education Core Curriculum | | Required | 1080/61.8 | 43.2 |
| | | Elective | 160/10 | 7.0 |
| General Basic Subdisciplinary | | Required | 752/42.9 | 30.0 |
| Major-specific Courses | Core | Required | 288/15.8 | 11.1 |
| | Elective | Elective | 200/12.5 | 8.7 |
| Total | | | 2480/143 | 100 |

2. 集中性实践教学环节周数与学分

Practicum Credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 5.9 |
| 安全教育 | 必修 | 1/0.5 | 2.9 |
| 认知实习 | 必修 | 1/0.5 | 2.9 |
| 金工实习 | 必修 | 2/1 | 5.9 |
| 电工实习 | 必修 | 2/1 | 5.9 |
| 科研训练 | 必修 | 2/1 | 5.9 |
| 生产实习 | 必修 | 4/2 | 11.8 |
| 课程设计 | 必修 | 4/2 | 11.8 |
| 毕业设计（论文） | 必修 | 16/8 | 47 |
| 合计 | | 34/17 | 100 |

| Course Title | Required/Elective | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 5.9 |
| Safety Education | Required | 1/0.5 | 2.9 |
| Perceive Practice | Required | 1/0.5 | 2.9 |
| Mechanical Engineering Training | Required | 2/1 | 5.9 |
| Electrical Engineering Practice | Required | 2/1 | 5.9 |
| Engineering Internship | Required | 2/1 | 5.9 |
| Course Project | Required | 4/2 | 11.8 |
| Scientific Research Training | Required | 4/2 | 11.8 |
| Undergraduate Thesis | Required | 16/8 | 47 |
| Total | | 34/17 | 34/17 |

3.课外学分

Extracurricular Credits

| 序号 | 课外活动和 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 2 | 英语及计算机考试 | 全国大学英语六级考试 | 获六级证书者 | 2 |
| | | 托福考试 | 达 90 分以上者 | 3 |
| | | 雅思考试 | 达 6.5 分以上者 | 3 |
| | | GRE 考试 | 达 1350 分以上者 | 3 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |

续表

| 序号 | 课外活动和 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 3 | 竞赛 | 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 4 | 论文 | 在全国性刊物发表论文 | 每篇论文 | 2~3 |
| 5 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1~3 |
| 6 | 实验 | 视创新情况 | 每项 | 1~3 |

注：参加校体育运动会获第一名、第二名者与校级一等奖等同，获第三名至第五名者与校级二等奖等同，获第六至第八名者与校级三等奖等同。

| No. | Activities | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Community Engagement | Submitting a report and passing the oral defense | | 1 |
| | | Individuals awarded “Active Participant” / Teams awarded “Excellent Performance” by HUST or Hubei Youth League Committee | | 2 |
| 2 | Examinations in English and Computer | CET-6 | Certificate | 2 |
| | | TOEFL | 90 Points or Higher | 3 |
| | | IELTS | 6.5 Points or Higher | 3 |
| | | GRE | 1350 Points or Higher | 3 |
| | | National Computer Rank Examinations | Certificate Grade 2 or Higher | 2 |
| | | Qualifications for Computer and Software Technology Proficiency | Programmer | 2 |
| | | | Senior Programmer | 3 |
| | | | System Analyst | 4 |
| 3 | Competitions | University Level | First Prize | 3 |
| | | | Second Prize | 2 |
| | | | Third Prize | 1 |
| | | Provincial Level | First Prize | 4 |
| | | | Second Prize | 3 |
| | | | Third Prize | 2 |
| | | National Level | First Prize | 6 |
| | | | Second Prize | 4 |
| | | | Third Prize | 3 |
| 4 | Academic Papers | Published in national-level journals | Each paper | 2~3 |
| 5 | Research Program | Contribution and research capability | Each Program | 1~3 |
| 6 | Experiments | Innovation capacity | Each Experiment | 1~3 |

PS：In HUST Sports Meeting, the first and the second prize, and the sixth prize to eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## Ⅶ. Main Courses

电路理论 Circuit Theory、模拟电子技术 Analogue Electronics、数字电路与逻辑设计 Digital Circuit and Logic Design 应用光子学基础 Fundamental of Applied Photonics、微机原理与接口 Principle of Microcomputer and Interface、生物医学传感检测与仪器 Biomedical Sensing, Testing and Instrumentation、生物医学数字信号处理 Biomedical Digital Signal Processing、生物医学光子学

Biomedical Photonics、医学影像系统原理 Medical Imaging System Principle、医学图像处理 Medical Image Processing、生物材料学 Biomaterials、纳米生物医学分析技术 Nano-biomedical Analytical Technology、细胞生物学 Cellular Biology、生物化学与分子生物学 Biochemistry and Molecular Biology、解剖与生理学 Anatomy and Physiology 等。

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Practicum Module(Experiments Included)

物理实验 Physical Experiment、电路测试基础实验 Experiments in Circuit Measurement、应用光子学基础实验 Experiments in Fundamentals of Applied Photonics、电子测试与实验 Experiments in Electronics、生物医学传感检测与仪器实验 Experiments in Biomedical Sensing, Detection and Instrumentation 生物医学数字信号处理实验 Experiments in Biomedical Digital Signal Processing、解剖与生理学实验 Experiments in Anatomy and Physiology、生物化学与分子生物学实验 Experiments in Biochemistry and Molecular Biology、认知实习 Perceive Practice、金工实习 Industrial Practice、电工实习 Electrical Engineering Practice、生产实习 Engineering Internship、科研训练 Research Training、课程设计 Course Project、毕业设计 Undergraduate Thesis。

## 九、教学进程计划表

## Ⅸ. Course Schedule

院（系）：生命科学与技术学院　　专业：生物医学工程

School(Department):School of Life Science & Technology　　Specialty: Biomedical Engineering

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必　修 Required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必　修 Required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必　修 Required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必　修 Required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必　修 Required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概述 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必　修 Required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | 必　修 Required | 0100741 | 形势与政策 Situation and Policy | 32 | 2 | 14 | | | 1-6 |
| | 必　修 Required | 0508453 | 综合英语（一） Comprehensive English （I） | 56 | 3.5 | | | | 1 |
| | 必　修 Required | 0508463 | 综合英语（二） Comprehensive English （II） | 56 | 3.5 | | | | 2 |
| | 必　修 Required | 0700011 | 微积分（一）（上） Calculus (Ⅰ) Part I | 88 | 5.5 | | | | 1 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必 修 Required | 0700012 | 微积分（一）（下） Calculus (Ⅰ) Part II | 88 | 5.5 | | | | 2 |
| | 必 修 Required | 0700048 | 大学物理（一） Physics (Ⅰ) | 64 | 4 | | | | 2 |
| | 必 修 Required | 0700049 | 大学物理（二） Physics (Ⅱ) | 64 | 4 | | | | 3 |
| | 必 修 Required | 0706891 | 物理实验（一） Physics Experiments (Ⅰ) | 32 | 1 | | 32 | | 2 |
| | 必 修 Required | 0706901 | 物理实验（二） Physics Experiments (Ⅱ) | 24 | 0.8 | | 24 | | 3 |
| | 必 修 Required | 0400111 | 大学体育（一） Physical Education(Ⅰ) | 32 | 1 | | | | 1 |
| | 必 修 Required | 0400121 | 大学体育（二） Physical Education (Ⅱ) | 32 | 1 | | | | 2 |
| | 必 修 Required | 0400131 | 大学体育（三） Physical Education(Ⅲ) | 32 | 1 | | | | 3 |
| | 必 修 Required | 0400141 | 大学体育（四） Physical Education(Ⅳ) | 32 | 1 | | | | 4 |
| | 必 修 Required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 1 |
| | 必 修 Required | 0827781 | 计算机与程序设计基础（C++） Fundamental of Computer Programming (C++) | 48 | 3 | | | 8 | 1 |
| | 必 修 Required | 0700054 | 线性代数 Linear Algebra | 40 | 2.5 | | | | 2 |
| | 必 修 Required | 0700071 | 复变函数与积分变换 Complex Function | 40 | 2.5 | | | | 3 |
| | 必 修 Required | 0700063 | 概率论与数理统计（三） Probability and Statistics (Ⅲ) | 40 | 2.5 | | | | 3 |
| | 必 修 Required | 0700081 | 数理方程与特殊函数(一) Equations in Physics and Special Function | 40 | 2.5 | | | | 4 |
| | | | 人文社科类选修课程 Electives in Humanities and Social Science | 160 | 10 | | | | |
| 学科大类基础课程 Discipline-related General Courses | 必 修 Required | 0801665 | 工程制图（一） Engineering Graphics (Ⅰ) | 40 | 2.5 | | | | 1 |
| | 必 修 Required | 0700894 | 细胞生物学 Cellular Biology | 48 | 3 | | | | 4 |
| | 必 修 Required | 0714101 | 基础化学 Basic Chemistry | 32 | 2 | | | | 1 |
| | 必 修 Required | 0704511 | 有机化学（含实验） Organic Chemistry (Including Experiments) | 96 | 6 | | 32 | | 2 |
| | 必 修 Required | 0800114 | 电路理论（四） Circuit Theory (Ⅳ) | 72 | 4.5 | | | | 3 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 学科大类基础课程 Discipline-related General Courses | 必 修 Required | 0811462 | 电路测试基础实验 Experiments in Circuit Measurement | 32 | 1 | | 32 | | 3 |
| | 必 修 Required | 0800124 | 模拟电子技术（二） Analogue Electronics（Ⅱ） | 56 | 3.5 | | | | 3 |
| | 必 修 Required | 0800152 | 信号与线性系统 Signals and Linear System | 64 | 4 | | | 8 | 4 |
| | 必 修 Required | 0800775 | 数字电路与逻辑设计 Digital Circuit and Logic Design | 56 | 3.5 | | | | 4 |
| | 必 修 Required | 1002761 | 生物化学与分子生物学（一） Biochemistry and Molecular Biology Ⅰ | 56 | 3.5 | | | | 3 |
| | 必 修 Required | 1002771 | 生物化学与分子生物学（二） Biochemistry and Molecular Biology Ⅱ | 32 | 2 | | | | 4 |
| | 必 修 Required | 1002782 | 生物化学与分子生物学实验（一） Experiments in Biochemistry and Molecular Biology Ⅰ | 24 | 0.8 | | 24 | | 3 |
| | 必 修 Required | 1002792 | 生物化学与分子生物学实验（二） Experiments in Biochemistry and Molecular Biology Ⅱ | 24 | 0.8 | | 24 | | 4 |
| | 必 修 Required | 1003881 | 生物医学工程概论 Introduction to Biomedical Engineering | 16 | 1 | | | | 1 |
| | 必 修 Required | 0802405 | 电子测试与实验（一） Experiments in Electronics（Ⅰ） | 56 | 1.8 | | 56 | | 5 |
| | 必 修 Required | 0811031 | 微机原理与接口 Principle of Microcomputer and Interface | 48 | 3 | | 16 | | 5 |
| 专业核心课程 Major-specific Core Courses | 必 修 Required | 0703522 | 应用光子学基础 Fundamentals of Applied Photonics | 56 | 3.5 | | | | 4 |
| | 必 修 Required | 0703532 | 应用光子学基础实验 Experiments in Fundamentals of Applied Photonics | 8 | 0.5 | | 8 | | 4 |
| | 必 修 Required | 0702761 | 解剖与生理学 Anatomy and Physiology | 64 | 4 | | | | 5 |
| | 必 修 Required | 0702772 | 解剖与生理学实验 Experiments in Anatomy and Physiology | 32 | 1 | | 32 | | 5 |
| | 必 修 Required | 0714112 | 生物医学传感检测与仪器 Biomedical Sensor, testing and Instrumentation | 40 | 2.5 | | | | 6 |
| | 必 修 Required | 0714122 | 生物医学传感检测与仪器实验 Experiments in Biomedical Sensing, Detection and Instrumentation | 24 | 0.8 | | 24 | | 6 |
| | 必 修 Required | 0716872 | 生物医学数字信号处理 Biomedical Digital Signal Processing | 48 | 3 | | | | 5 |
| | 必 修 Required | 0716883 | 生物医学数字信号处理实验 Experiments in Biomedical Digital Signal Processing | 16 | 0.5 | | 16 | | 5 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业方向课 Major-specific Electives | | | 专业方向课程(以下2个方向任选1个,一旦选定必须修完该方向要求学分) | 200 | 12.5 | | | | |
| | | | 专业方向选修课程组 A（生物医学信息工程）<br>Group A (Biomedical Information Engineering ) | | | | | | |
| | 选 修 Elective | 0700952 | 生物医学光子学<br>Biomedical Photonics | 32 | 2 | | | | 5 |
| | 选 修 Elective | 0706003 | 生物医学光子学实验<br>Experimental of Biomedical Photons | 16 | 0.5 | | 16 | | 5 |
| | 选 修 Elective | 0800822 | 微机式医学仪器设计<br>Design of microcomputer- Based Medical Instrumentation | 40 | 2.5 | | | | 6 |
| | 选 修 Elective | 0811182 | 微机式医学仪器设计实验<br>Design of Microcomputer Based Medical Instrumentation Experiments | 16 | 0.5 | | 16 | | 6 |
| | 选 修 Elective | 0701001 | 医学统计学<br>Medical Statistics | 16 | 1 | | | | 7 |
| | 选 修 Elective | 0700972 | 医学图像处理<br>Medical Image Processing | 32 | 2 | | | | 6 |
| | 选 修 Elective | 0714252 | 医学图像处理实验<br>Medical Image Processing Experiments | 24 | 0.8 | | 24 | | 6 |
| | 选 修 Elective | 0705991 | PET 概论<br>Fundamentals of PET | 32 | 2 | | | | 6 |
| | 选 修 Elective | 0702632 | 心理学概论<br>Introduction to Psychology | 16 | 1 | | | | 7 |
| | 选 修 Elective | 0827971 | 超声概论<br>Introduction to ultrasound | 32 | 2 | | | | 6 |
| | 选 修 Elective | 0700932 | 医学影像系统原理<br>Principles of Medical Imaging Systems | 32 | 2 | | | | 6 |
| | | | 专业方向选修课程组 B（生物医学材料与分析检测） | | | | | | |
| | 选 修 Elective | 0816472 | 生物材料学<br>Biomaterials | 48 | 3 | | | | 5 |
| | 选 修 Elective | 0706201 | 化学与生物传感器<br>Chemistry and Biomedical Sensor | 32 | 2 | | | | 6 |
| | 选 修 Elective | 0704663 | 生物材料与组织工程实验<br>Experiments for Biomaterials and Tissue Engineering | 24 | 0.8 | | 24 | | 6 |
| | 选 修 Elective | 0801561 | 新材料概论<br>Introduction to Advanced Materials | 32 | 2 | | | | 5 |
| | 选 修 Elective | 0704691 | 纳米生物医学分析技术<br>Nano-biomedical Analytical Technology | 32 | 2 | | | | 5 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业方向课 Major-specific Electives | 选　修 Elective | 0811261 | 组织工程导论 Introduction to Tissue Engineering | 32 | 2 | | | | 6 |
| | 选　修 Elective | 0704671 | 人工器官概论 Introduction to Artificial Organs | 16 | 1 | | | | 6 |
| | 选　修 Elective | 0700691 | 仪器分析 Instrumental Analysis | 32 | 2 | | | | 6 |
| | 选　修 Elective | 0706181 | 生物材料相容性评价 Compatibility Evaluation of Biomaterials | 16 | 1 | | | | 6 |
| | 选　修 Elective | 0701001 | 医学统计学 Medical Statistics | 16 | 1 | | | | 7 |
| 实践环节 Practical Training Items | 必　修 Required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必　修 Required | 1306051 | 安全教育 Safety Education | 1w | 0.5 | | | | 1 |
| | 必　修 Required | 1300536 | 认知实习 Perceive Practice | 1w | 0.5 | | | | 1 |
| | 必　修 Required | 1302331 | 金工实习 Industrial Practice | 2w | 1 | | | | 3 |
| | 必　修 Required | 1304411 | 电工实习 Electrical Engineering Practice | 2w | 1 | | | | 4 |
| | 必　修 Required | 130044b | 科研训练 Research Training | 2w | 1 | | | | 5 |
| | 必　修 Required | 1327694 | 生产实习 Engineering Internship | 4w | 2 | | | | 6 |
| | 必　修 Required | 130042b | 课程设计 Course Project | 4w | 2 | | | | 7 |
| | 必　修 Required | 130004a | 毕业设计（论文） Undergraduate Thesis | 16w | 8 | | | | 8 |

# 生物技术专业本科培养计划

# Undergraduate Program for Specialty in Biotechnology

## 一、培养目标

### Ⅰ. Program Objective

本专业培养适应我国社会主义现代化建设实际需要，德、智、体全面发展，较全面地掌握生命科学尤其是生物科学的基本知识、基本理论和基本技能，具有现代生物技术系统的基础理论知识以及扎实的实验技能，熟悉生物技术学科的现状、前沿及其在生产实践中的应用，具备广泛的人文社科和经济管理科学的基本素质，受到科学研究及工程应用双重技能和素质训练，在教学、科研、科技开发及管理等许多方面具有良好素质的生物技术人才。

由于生物技术口径宽，适应面广，又具有许多个性化发展方向，需求广泛。因此，毕业生可以根据自己的专业背景知识以及专业方向特色到相应的科研院所、高等学校以及医药工业、食品轻工、环保工业等企事业单位或管理部门从事教学、科研、科技开发以及行政管理等方面的工作；还可以实现到国内外相近学科的教学研究单位继续深造。

This program establishes basic theories, knowledge and skills, and involves the students in the current situation, frontline, and application in production of biotechnology. The students will also develop makings in economic management, humanities and arts, accept training on both research and application.

The biotechnology deals with a wide variety of subjects and covers various disciplines. The students can thus fit themselves into different businesses, such as scientific research, higher education, pharmaceutical industry, food industry, environmental protection industry and engaging in teaching, research, or management. They will also have a good opportunity to further their study in this major or related disciplines.

## 二、基本规格要求

### Ⅱ. Learning Outcomes

1. 具有一定的人文社科及经济管理科学的基础和宽广的自然科学的基础，尤其要具备知识经济时代所要求的人才知识结构和技能，具有独立获得知识和解决实际问题的基本能力；

2. 达到国家规定的大学生体育和军事训练合格标准，养成良好的体育锻炼和卫生习惯，具备健全的心理和健康的体魄；

3. 系统地、扎实地掌握生物科学和现代生物技术的基本理论、基本知识和基本技能；掌握本专业的应用所需要的生命科学、环境科学及工业生物技术等领域的背景知识，以及化学、物理、数学和工程等必备的通识基础学科的基本理论、基本知识和技能；受到比较严格的科学思维、科学实验和工程实践的训练；

4. 具有一定的生物技术专门知识和应用知识，对生物技术总的发展趋势以及某一方向的现状及应用前景有很好的了解，受到科学研究或工程应用的初步训练，具有科学研究、教学、科技管理与开发的初步能力；

5. 初步掌握一门外国语，能顺利地阅读本专业的外文书刊；熟悉计算机的使用以及查阅文献资料的方法。

Upon graduation, you can：

1. Gain solid grounding in both natural sciences and humanities & arts, build up your independent

learning and problem-solving ability ;

2. Learn both theories and skills of biology and biotechnology ;

3. Receive education in various subjects necessary for this course, including chemistry, physics, mathematics, engineering, etc. ;

4. Accept training in scientific research, experiments and engineering ;

5. Master a foreign language and understand foreign language documents of this major, use computers with ease, acquire the skills of literature search.

## 三、培养特色

## Ⅲ. Program Highlights

理工医交叉、学研产结合的人才培养模式，突出生物技术在生物制药、生物基产品及生物能源制造以及环境保护工程中的应用。

Talent training mode consists of cross-disciplinary in science, technology, and medicine, combining advantage of industry-university-research collaborations. This program is characterized by the application of biotechnology in bio-pharmaceutical engineering, bio-based chemicals, bioenergy manufacture and environment engineering.

## 四、主干学科

## Ⅳ. Main Disciplines

生物科学 Biology、生物技术 Biotechnology

## 五、学制与学位

## V. Program Length and Degree

学制：四年

Duration：4 years

授予学位：理学学士

Degrees Conferred：Bachelor of Science

## 六、学时与学分

## VI. Credits Hours and Units

完成学业最低课内学分(含课程体系与集中性实践环节)要求：159.8 学分。其中，专业基础课程、专业核心课程学分不允许用其他课程学分进行学分冲抵和替代。

Minimum Credits of Curricular (comprising course system and intensified internship practical training) :159.8 credits. Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：5 学分。

Minimum Extracurricular Credits：5credits.

1. 课程体系学时与学分

Course Credits Hours and Units

| 课程类别 | | 课程性质 | 学时/学分 | 占课程体系学分比例(%) |
|---|---|---|---|---|
| 通识教育基础课程 | | 必修 | 992/56.3 | 39.0 |
| | | 选修 | 160/10 | 6.9 |
| 学科（大类）基础课程 | | 必修 | 824/43 | 29.8 |
| 专业课程 | 专业核心课程 | 必修 | 368/19 | 13.2 |
| | 专业选修课程 | 选修 | 256/16 | 11.1 |
| 合 计 | | | 2600/144.3 | 100 |

| Course Type | | Required/Elective | Hrs/Crs | Percentage (%) |
|---|---|---|---|---|
| General Education Core Curriculum | | Required | 992/56.3 | 39.0 |
| | | Elective | 160/10 | 6.9 |
| Discipline-related courses | | Required | 824/43 | 29.8 |
| Major-specific courses | Core | Required | 368/19 | 13.2 |
| | Elective | Elective | 256/16 | 11.1 |
| Total | | | 2600/144.3 | 100 |

2. 集中性实践教学环节周数与学分

Practicum Credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 6.5 |
| 金工实习 | 必修 | 2/1 | 6.5 |
| 电工实习 | 必修 | 1/0.5 | 3.2 |
| 安全教育 | 必修 | 1/0.5 | 3.2 |
| 认知实习 | 必修 | 1/0.5 | 3.2 |
| 生物学野外实习 | 必修 | 3/1.5 | 9.7 |
| 生产实习 | 必修 | 3/1.5 | 9.7 |
| 科研训练 | 必修 | 2/1 | 6.5 |
| 毕业设计（论文） | 必修 | 16/8 | 51.6 |
| 合计 | | 31/15.5 | 100 |

| Course Title | Required/Elective | Wks/Crs | Percentage（%） |
|---|---|---|---|
| Military Training | Required | 2/1 | 6.5 |
| Industrial Practice | Required | 2/1 | 6.5 |
| Electrical Engineering Practice | Required | 1/0.5 | 3.2 |
| Safety education | Required | 1/0.5 | 3.2 |
| Perceive Practice | Required | 1/0.5 | 3.2 |
| Biological Field Practice | Required | 2/1 | 6.5 |
| Engineering Internship | Required | 3/1.5 | 9.7 |
| Research Training | Required | 3/1.5 | 9.7 |
| Undergraduate Thesis | Required | 16/8 | 51.6 |
| Total | | 31/15.5 | 100 |

3. 课外学分

Extracurricular Credits

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 2 | 英语及计算机考试 | 全国大学英语六级考试 | 获六级证书者 | 2 |
| | | 托福考试 | 达 90 分以上者 | 3 |
| | | 雅思考试 | 达 6.5 分以上者 | 3 |
| | | GRE 考试 | 达 1350 分以上者 | 3 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |
| 3 | 竞赛 | 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |

续表

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 3 | 竞赛 | | 获三等奖者 | 1 |
| | | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 4 | 论文 | 在全国性刊物发表论文 | 每篇论文 | 2~3 |
| 5 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1~3 |
| 6 | 实验 | 视创新情况 | 每项 | 1~3 |

注：参加校体育运动会获第一名、第二名者与校级一等奖等同，获第三名至第五名者与校级二等奖等同，获第六至第八名者与校级三等奖等同。

| No. | Activities | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Community Engagement | Submitting a report and passing the oral defense | | 1 |
| | | Individuals awarded “Active Participant” / Teams awarded “Excellent Performance” by HUST or Hubei Youth League Committee | | 2 |
| 2 | Examinations in English and Computer | CET-6 | Certificate | 2 |
| | | TOEFL | 90 Points or Higher | 3 |
| | | IELTS | 6.5 Points or Higher | 3 |
| | | GRE | 1350 Points or Higher | 3 |
| | | National Computer Rank Examinations | Certificate Grade 2 or Higher | 2 |
| | | Qualifications for Computer and Software Technology Proficiency | Programmer | 2 |
| | | | Senior Programmer | 3 |
| | | | System Analyst | 4 |
| 3 | Competitions | University Level | First Prize | 3 |
| | | | Second Prize | 2 |
| | | | Third Prize | 1 |
| | | Provincial Level | First Prize | 4 |
| | | | Second Prize | 3 |
| | | | Third Prize | 2 |
| | | National Level | First Prize | 6 |
| | | | Second Prize | 4 |
| | | | Third Prize | 3 |
| 4 | Academic Papers | Published in national-level journals | Eachpaper | 2~3 |
| 5 | Research Program | Contribution and research capability | Each Program | 1~3 |
| 6 | Experiments | Innovation capacity | Each Experiment | 1~3 |

Note :In HUST Sports Meeting, the first and the second prize, and the sixth prize to eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## Ⅶ. Main Courses

普通生物学 General Biology、生物化学 Biochemistry、细胞生物学 Cellular Biology、遗传学 Genetics、微生物学 Microbiology、分子生物学 Molecular Biology、生物化工原理与设备 Principle and Equipment of Biochemical Industry、生物统计学 Biostatistics、发酵工程 Fermentation Engineering、酶工程 Enzyme Engineering、基因工程原理 Principle of Gene Engineering、细胞工程原理 Principle of Cell Engineering、 天然产物化学 Chemistry of Natural Products、生物分离技术 Bioseparation Technology、解剖与生理学 Anatomy and Physiology、免疫学 Immunology、基因组学 Genomics、代谢组学 Metabolomics 等。

## 八、主要实践教学环节

## Ⅷ. Practicum Module（Experiments Included）

物理实验 Physical Experiment、基础化学实验 Experiments in Fundamental Chemistry、有机化学实验 Experiment in Organic Chemistry，普通生物学实验 Experiment in General Biology 、生物化学实验 Experiments in Biochemistry、细胞生物学实验 Experiments in Cellular Biology、分子生物学实验 Experiments in Molecular Biology、遗传学实验 Experiments of Genetics、微生物学实验 Experiments in Microbiology、发酵工程实验 Experiments in Fermentation Engineering、解剖与生理学实验 Experiments in Anatomy and Physiology、生物技术大实验 Experiments of Biotechnology、军事训练 Military Training、认知实习 Perceive Practice、生物学野外实习 Biological Field Practice、生产实习 Engineering Internship、科研训练 Research Training、毕业设计 Undergraduate Thesis。

## 九、教学进程计划表

## Ⅸ. Course Schedule

院（系）：生命科学与技术学院　　专业：生物技术

School(Department):School of Life Science & Technology　　Specialty：Biotechnology

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必　修 Required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必　修 Required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必　修 Required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必　修 Required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必　修 Required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概述 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必　修 Required | 0100741 | 形势与政策 Situation and Policy | 32 | 2 | 14 | | | 1-6 |
| | 必　修 Required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 7 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必　修 Required | 0508453 | 综合英语（一） Comprehensive English （I） | 56 | 3.5 | | | | 1 |
| | 必　修 Required | 0508463 | 综合英语（二） Comprehensive English （II） | 56 | 3.5 | | | | 2 |
| | 必　修 Required | 0400111 | 大学体育（一） Physical Education(Ⅰ) | 32 | 1 | | | | 1 |
| | 必　修 Required | 0400121 | 大学体育（二） Physical Education (Ⅱ) | 32 | 1 | | | | 2 |
| | 必　修 Required | 0400131 | 大学体育（三） Physical Education(Ⅲ) | 32 | 1 | | | | 3 |
| | 必　修 Required | 0400141 | 大学体育（四） Physical Education(Ⅳ) | 32 | 1 | | | | 4 |
| | 必　修 Required | 0700011 | 微积分（一）（上） Calculus (Ⅰ) Part I | 88 | 5.5 | | | | 1 |
| | 必　修 Required | 0700012 | 微积分（一）（下） Calculus (Ⅰ) Part II | 88 | 5.5 | | | | 2 |
| | 必　修 Required | 0700063 | 概率论与数理统计（三） Probability and Statistics (Ⅲ) | 40 | 2.5 | | | | 3 |
| | 必　修 Required | 0700048 | 大学物理（一） Physics (Ⅰ) | 64 | 4 | | | | 2 |
| | 必　修 Required | 0700049 | 大学物理（二） Physics (Ⅱ) | 64 | 4 | | | | 3 |
| | 必　修 Required | 0706891 | 物理实验（一） Physics Experiments (Ⅰ) | 32 | 1 | | 32 | | 2 |
| | 必　修 Required | 0706901 | 物理实验（二） Physics Experiments (Ⅱ) | 24 | 0.8 | | 24 | | 3 |
| | 必　修 Required | 0827781 | 计算机与程序设计基础（C++） Fundamental of Computer Programming (C++) | 48 | 3 | | | 8 | 1 |
| | 必　修 Required | 0833174 | 数据库技术及应用 Technology and Application of Database | 32 | 2 | | | 8 | 2 |
| | 必　修 Required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | | | 人文社会科学公共选修课 Electives in Humanities and Social Science | 160 | 10 | | | | 1-8 |
| | 必　修 Required | 0707171 | 普通生物学(上) General Biology Part Ⅰ | 40 | 2.5 | | | | 1 |
| | 必　修 Required | 0812813 | 普通生物学实验 Experiment in General Biology | 32 | 1 | | 32 | | 1 |
| | 必　修 Required | 0707181 | 普通生物学(下) General Biology Part Ⅱ | 32 | 2 | 4 | | | 2 |
| | 必　修 Required | 0702513 | 基础化学(二) Fundamental Chemistry （Ⅱ） | 64 | 4 | | | | 1 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 学科大类基础课程 Discipline-related General Courses | 必　修 Required | 070065c | 基础化学实验 Experiments in Fundamental Chemistry | 24 | 0.8 | | 24 | | 1 |
| | 必　修 Required | 0700122 | 有机化学 Organic Chemistry | 64 | 4 | | | | 2 |
| | 必　修 Required | 0703485 | 有机化学实验 Experiments in Organic Chemistry | 32 | 1 | | 32 | | 2 |
| | 必　修 Required | 0702725 | 物理化学 Physical Chemistry | 32 | 2 | | | | 3 |
| | 必　修 Required | 0703497 | 物理化学实验 Experiments in Physical Chemistry | 32 | 1 | | 32 | | 3 |
| | 必　修 Required | 0703091 | 生物技术专业概论 Introduction to Biotechnology | 16 | 1 | | | | 1 |
| | 必　修 Required | 0703081 | 生物化学 Biochemistry | 88 | 5.5 | | | | 3 |
| | 必　修 Required | 0704132 | 生物化学实验（一） Experiments in Biochemistry I | 24 | 0.8 | | 24 | | 3 |
| | 必　修 Required | 0704142 | 生物化学实验（二） Experiments in Biochemistry II | 24 | 0.8 | | 24 | | 4 |
| | 必　修 Required | 0701653 | 微生物学 Microbiology | 48 | 3 | | | | 4 |
| | 必　修 Required | 0701665 | 微生物学实验 Experiments in Microbiology | 32 | 1 | | 32 | | 4 |
| | 必　修 Required | 0700893 | 细胞生物学 Cellular Biology | 56 | 3.5 | | | | 4 |
| | 必　修 Required | 0702745 | 细胞生物学实验 Experiments in Cellular Biology | 24 | 0.8 | | 24 | | 4 |
| | 必　修 Required | 0701021 | 分子生物学 Molecular Biology | 56 | 3.5 | | | | 5 |
| | 必　修 Required | 0702752 | 分子生物学实验 Experiments in Molecular Biology | 24 | 0.8 | | 24 | | 5 |
| | 必　修 Required | 0701053 | 遗传学 Genetics | 48 | 3 | | | | 5 |
| | 必　修 Required | 0703103 | 遗传学实验 Experiments in Genetics | 32 | 1 | | 32 | | 5 |
| 专业核心课程 Major-specific Core Courses | 必　修 Required | 0701075 | 生物化工原理与设备 Principle & Equipments of Biochemical Industry | 48 | 3 | | | | 4 |
| | 必　修 Required | 0701093 | 发酵工程 Fermentation Engineering | 32 | 2 | | | | 5 |
| | 必　修 Required | 0707191 | 发酵工程实验 Experiments in Fermentation Engineering | 32 | 1 | | 32 | | 5 |
| | 必　修 Required | 0701182 | 酶工程 Enzyme Engineering | 32 | 2 | | | | 5 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业核心课程 Major-specific Core Courses | 必修 Required | 0705031 | 基因工程原理 Principle of Gene Engineering | 32 | 2 | | | | 6 |
| | 必修 Required | 0706111 | 细胞工程原理 Principle of Cell Engineering | 32 | 2 | | | | 6 |
| | 必修 Required | 0702761 | 解剖与生理学 Anatomy and Physiology | 64 | 4 | | | | 5 |
| | 必修 Required | 0702772 | 解剖与生理学实验 Experiments in Anatomy and Physiology | 32 | 1 | | 32 | | 5 |
| | 必修 Required | 0701065 | 生物技术大实验 Experiments in Biotechnology | 64 | 2 | | 64 | | 7 |
| 专业选修课程 Major-specific Electives | | | 专业方向课程 （以下 2 个方向任选 1 个。一旦选定，必须修完该课程组的全部课程） | | | | | | |
| | | | 专业方向选修课程组 A（生物产品制造技术） | 128 | 8 | | | | |
| | 选修 Elective | 0707741 | 合成生物学与细胞工厂 Synthetic Biology and Cell Factory | 32 | 2 | | | | 6 |
| | 选修 Elective | 0707751 | 代谢生理与代谢工程 Metabolic Physiology and Metabolic Engineering | 32 | 2 | | | | 6 |
| | 选修 Elective | 0707221 | 生物产品制造工艺学 Biological Products Manufacturing Technology | 32 | 2 | | | | 6 |
| | 选修 Elective | 0704241 | 生物分离技术 Bioseparation Technology | 32 | 2 | | | | 7 |
| | | | 专业方向选修课程组 B(环境生物技术） | 128 | 8 | | | | |
| | 选修 Elective | 0703322 | 环境生态学 Environmental Ecology | 32 | 2 | | | | 6 |
| | 选修 Elective | 0707241 | 环境污染及生态毒理学 Environmental Pollution and Ecotoxicology | 32 | 2 | | | | 6 |
| | 选修 Elective | 0716862 | 环境生物工程 Environmental Bioengineering | 32 | 2 | | | | 6 |
| | 选修 Elective | 0707761 | 生物炼制与生物能源 Biorefinery and Bioenergy | 32 | 2 | | | | 7 |
| | | | 其他选修课程（至少 8 学分） | 128 | 8 | | | | |
| | 选修 Elective | 0703051 | 免疫学 Immunology | 32 | 2 | | | | 6 |
| | 选修 Elective | 0701273 | 生物信息学 Bioinformatics | 56 | 3.5 | | | | 6 |
| | 选修 Elective | 0703032 | 系统生物学 Systems Biology | 32 | 2 | | | | 7 |
| | 选修 Elective | 0701112 | 生物统计学 Biostatistics | 32 | 2 | | | | 5 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业选修课程 Major-specific Electives | 选　修 Elective | 0702781 | 药学基础 Fundamentals of Pharmacology | 32 | 2 | | | | 7 |
| | 选　修 Elective | 0700691 | 仪器分析 Instrumental Analysis | 32 | 2 | | | | 4 |
| | 选　修 Elective | 0701161 | 天然产物化学 Chemistry of Natural Products | 32 | 2 | | | | 6 |
| | 选　修 Elective | 0701241 | 发育生物学 Developmental Biology | 40 | 2.5 | | | | 6 |
| | 选　修 Elective | 0701262 | 基因组学 Genomics | 32 | 2 | | | | 6 |
| | 选　修 Elective | 0705062 | 代谢组学 Metabonomics | 16 | 1 | | | | 6 |
| 实践环节 Practical Training Items | 必　修 Required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必　修 Required | 1300536 | 认知实习 Perceive Practice | 1w | 0.5 | | | | 1 |
| | 必　修 Required | 1306051 | 安全教育 Safety Education | 1w | 0.5 | | | | 1 |
| | 必　修 Required | 1304412 | 电工实习 Electrical Engineering Practice | 1w | 0.5 | | | | 4 |
| | 必　修 Required | 1302331 | 金工实习 Industrial Practice | 2w | 1 | | | | 3 |
| | 必　修 Required | 1304441 | 生物学野外实习 Biological Field Practice | 3w | 1.5 | | | | 2 |
| | 必　修 Required | 1301352 | 生物技术科研训练 Research Training in Biotechnology | 2w | 1 | | | | 5 |
| | 必　修 Required | 1327694 | 生产实习 Engineering Internship | 3w | 1.5 | | | | 6 |
| | 必　修 Required | 130004a | 毕业设计（论文） Undergraduate Thesis | 16w | 8 | | | | 8 |

# 生物信息学专业本科培养计划

# Undergraduate Program for Specialty in Bioinformatics

## 一、培养目标

## Ⅰ. Program Objective

培养德、智、体全面发展，基础理论扎实、知识面宽、实践能力强、综合素质高、适应新世纪生命科学研究与生物技术相关产业发展需要，在生物信息获取、处理、开发与利用等方面具有突出特色的高素质人才。毕业生既能从事生命科学领域的基础研究以及新技术与新方法的研究开发，也能胜任生物技术、信息技术等相关产业和部门的技术与管理工作。

This program is dedicated to educating undergraduates to get comprehensive development in moral, intelligent and physical abilities, to possess solid ground of fundamental theory, wide-ranged knowledge and strong practical ability, especially in the fields of bioinformation acquisition, processing, exploitation and application, to meet the requirements of new century development of life science and biotechnology-related industries. As a result, the graduates can be engaged in the basic research of life science, the technology development or management in industries related to biotechnology, information technology and so on.

## 二、基本规格要求

## Ⅱ. Learning Outcomes

本专业学生应掌握生命科学、计算机技术、生物信息技术等的基本理论知识，并受到工程技术方面的良好训练。本科毕业生能够胜任生命科学相关研究与相关技术开发工作，能够在科技成果转化及产业化过程中发挥技术骨干作用。

Students should possess essential theories and knowledge in life science, computer technology, bioinformation technology and so on, and be well educated in engineering training and practice. The graduates are expected to be qualified for Research & Development in life science and development, and to play an important role in the transformation and industrialization of research results.

毕业生应获得以下几方面的知识和能力：

1. 扎实的数理化基础；
2. 生物科学与技术、医学、药学、与计算机技术、生物信息技术的基本理论和方法；
3. 很强的计算机应用能力和运用生物信息技术解决实际问题的能力；
4. 较强的英语语言能力；
5. 文献检索、资料查询、和撰写科学论文的能力；
6. 较好的人文社科知识和人文素质，较强的协调与组织能力；
7. 较强的创新精神与创新能力。

By the time of graduation, the students of the program are required to possess:

1.Solid ground in mathematics, physics and chemistry；

2.Principles and methods of biological science and technology, medicine, pharmacy, computer technology, and bioinformation technology;

3.Strong ability and skills of solving real-world problems with computer and bioinformation technology;

4. Strong English language ability;

5. Ability in searching for references, documents, and writing scientific articles

6. Attainment in humanities & art, cooperative and organizational skills

7. Sense of creation and innovation.

## 三、培养特色

## Ⅲ. Program Highlights

以生物科学、生物技术、信息技术为基础，以生物信息的获取、处理、开发与利用为核心，面向生命科学研究与生物技术相关产业。重视基础理论，强调宽口径培养，着眼全面提高学生的综合素质，培养具有创新能力的复合型人才。

Taking the biological science, biotechnology and information technology as the foundation, the bioinformation acquisition, processing, exploitation and application as the core, this program aims to cultivate all-around and innovative talents for the research of life science and the development of biotechnology related industries.

## 四、主干学科

## Ⅳ. Main Disciplines

生命科学 Life Science，计算机科学 Computer Science，生物信息学 Bioinformatics

## 五、学制与学位

## Ⅴ. Program Length and Degree

学制：四年

Duration：4 years

授予学位：工学学士

Degrees Conferred：Bachelor of Engineering

## 六、学时与学分

## Ⅵ. Credits Hours and Units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：160.5 学分。其中，专业基础课程、专业核心课程学分不允许用其他课程学分进行学分冲抵和替代。

Minimum Credits Required for Class (including Curriculum and Practical Training): 160. 5 credits. Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：5 学分。

Minimum Credits of Extracurricular Activities and Practice: 5credits.

1. 课程体系学时与学分

Hours/Credits of Course System

| 课程类别 | | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|---|
| 通识教育基础课程 | | 必修 | 1072/61.3 | 41.8 |
| | | 选修 | 160/10 | 6.9 |
| 学科大类基础课程 | | 必修 | 816/47.2 | 32.8 |
| 专业课程 | 专业核心课程 | 必修 | 328/19.5 | 13.5 |
| | 专业选修课程 | 选修 | 112/7 | 4.9 |
| 合计 | | | 2488/145 | 100 |

| Course Classified | | Course Nature | Hrs/Crs | Percentage (%) |
|---|---|---|---|---|
| Basic Courses in General Education | | Required | 1072/61.3 | 41.8 |
| | | Elective | 160/10 | 6.9 |
| Basic Courses in General Discipline | | Required | 816/47.2 | 32.8 |
| Courses in Specialty | Common Core Courses | Required | 328/19.5 | 13.5 |
| | Specialty-Oriented Courses | Elective | 112/7 | 4.9 |
| Total | | | 2488/145 | 100 |

2. 集中性实践教学环节周数与学分

Weeks/Credits of Intensified Internship and Practical Training

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2w/1 | 6.5 |
| 安全教育 | 必修 | 1w/0.5 | 3.3 |
| 金工实习 | 必修 | 2w/1 | 6.5 |
| 电工实习 | 必修 | 2w/1 | 6.5 |
| 认知实习 | 必修 | 1w/0.5 | 3.3 |
| 生产实习 | 必修 | 4w/2 | 13 |
| 课程设计 | 必修 | 2w/1 | 6.5 |
| 科研训练 | 必修 | 1w/0.5 | 3.3 |
| 毕业设计（论文） | 必修 | 16w/8 | 51.6 |
| 合计 | | 31 w/15.5 | 100 |

| Internship & Practical Training | Course Nature | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2w/1 | 6.5 |
| Safety Education | Required | 1w/0.5 | 3.3 |
| Industrial Practice | Required | 2w/1 | 6.5 |
| Electrical Engineering Practice | Required | 2w/1 | 6.5 |
| Cognitive Practice | Required | 1w/0.5 | 3.3 |
| Engineering Internship | Required | 4w/2 | 13 |
| Course Project | Required | 2w/1 | 6.5 |
| Science Research Practice | Required | 1w/0.5 | 3.3 |
| Undergraduate Thesis | Required | 16w/8 | 51.6 |
| Total | | 30w/15.5 | 100 |

3.课外学分

Extracurricular Credits

| 序号 | 课外活动和 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 2 | 英语及计算机考试 | 全国大学英语六级考试 | 获六级证书者 | 2 |
| | | 托福考试 | 达 90 分以上者 | 3 |
| | | 雅思考试 | 达 6.5 分以上者 | 3 |
| | | GRE 考试 | 达 1350 分以上者 | 3 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |

续表

| 序号 | 课外活动和 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 3 | 竞赛 | 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 4 | 论文 | 在全国性刊物发表论文 | 每篇论文 | 2-3 |
| 5 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1-3 |
| 6 | 实验 | 视创新情况 | 每项 | 1-3 |

注：参加校体育运动会获第一名、第二名者与校级一等奖等同，获第三名至第五名者与校级二等奖等同，获第六至第八名者与校级三等奖等同。

| No. | Activities | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Community Engagement | Submitting a report and passing the oral defense | | 1 |
| | | Individuals awarded “Active Participant” / Teams awarded “Excellent Performance” by HUST or Hubei Youth League Committee | | 2 |
| 2 | Examinations in English and Computer | CET-6 | Certificate | 2 |
| | | TOEFL | 90 Points or Higher | 3 |
| | | IELTS | 6.5 Points or Higher | 3 |
| | | GRE | 1350 Points or Higher | 3 |
| | | National Computer Rank Examinations | Certificate Grade 2 or Higher | 2 |
| | | Qualifications for Computer and Software Technology Proficiency | Programmer | 2 |
| | | | Senior Programmer | 3 |
| | | | System Analyst | 4 |
| 3 | Competitions | University Level | First Prize | 3 |
| | | | Second Prize | 2 |
| | | | Third Prize | 1 |
| | | Provincial Level | First Prize | 4 |
| | | | Second Prize | 3 |
| | | | Third Prize | 2 |
| | | National Level | First Prize | 6 |
| | | | Second Prize | 4 |
| | | | Third Prize | 3 |
| 4 | Academic Papers | Published in national-level journals | Each paper | 2~3 |
| 5 | Research Program | Contribution and research capability | Each Program | 1~3 |
| 6 | Experiments | Innovation capacity | Each Experiment | 1~3 |

Note: In HUST Sports Meeting, the first and the second prize, the third to the fifth prize, and the sixth prize to the eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## Ⅶ. Main Courses

微积分 Calculus、大学物理 Physics、线性代数 Linear Algebra、复变函数与积分变换 Complex Function、概率论与数理统计 Probability and Statistics、数据结构与算法 Data Structure and Algorithm、数据库技术及应用 Technology and Application of Database、普通生物学（三）General Biology III、遗传学 Genetics、生物化学 Biochemistry、分子生物学 Molecular Biology、细胞生物学 Cellular Biology、无机及分析化学 Inorganic and Analytical Chemistry、有机化学 Organic Chemistry、药学基础 Fundamentals of Medicine、生物信息学 Bioinformatics、生物信息 Perl 编程 Bioinformatic Perl Programming、系统生物学 Systems Biology、生物信息资源与实践 Bioinformatics Resources & Practice、生物信息数据挖掘 Bioinformation Data Mining、仪器分析 Instrumental Analysis、基因组学 Genomics、蛋白质组学 Proteomics、代谢组学 Metabolomics、定量生理学 Quantitative Physiology、生物统计学 Biostatistics、生物芯片 Biochip。

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Practicum Module（Experiments Included）

遗传学实验 Experiments of Genetics、细胞生物学实验 Experiments in Cellular Biology、分子生物学实验 Experiments in Molecular Biology、生物化学实验 Experiments in Biochemistry、无机及分析化学实验 Experiments in Inorganic and Analytical Chemistry、有机化学实验 Experiments in Organic Chemistry、遗传学实验 Experiments of Genetics、系统生物学实验 Experiments in Systems Biology、课程设计 Course Project、认知实习 Perceive Practice、科研训练 Research Training、生产实习 Engineering Internship、军事训练 Military Training、毕业设计（论文）Undergraduate Thesis。

## 九、教学进程计划表

## Ⅸ. Course Schedule

院（系）：生命科学与技术学院　　专业：生物信息学

School(Department):School of Life Science & Technology　　Specialty: Bioinformatics

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必修 Required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必修 Required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必修 Required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必修 Required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必修 Required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概述 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必修 Required | 0100741 | 形势与政策 Situation and Policy | 32 | 2 | 14 | | | 1-6 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必修 Required | 0508453 | 综合英语（一） Comprehensive English （I） | 56 | 3.5 | | | | 1 |
| | 必修 Required | 0508463 | 综合英语（二） Comprehensive English （II） | 56 | 3.5 | | | | 2 |
| | 必修 Required | 0400111 | 大学体育（一） Physical Education(Ⅰ) | 32 | 1 | | | | 1 |
| | 必修 Required | 0400121 | 大学体育（二） Physical Education (Ⅱ) | 32 | 1 | | | | 2 |
| | 必修 Required | 0400131 | 大学体育（三） Physical Education(Ⅲ) | 32 | 1 | | | | 3 |
| | 必修 Required | 0400141 | 大学体育（四） Physical Education(Ⅳ) | 32 | 1 | | | | 4 |
| | 必修 Required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 1 |
| | 必修 Required | 0700011 | 微积分（一）（上） Calculus (Ⅰ) Part I | 88 | 5.5 | | | | 1 |
| | 必修 Required | 0700012 | 微积分（一）（下） Calculus (Ⅰ) Part II | 88 | 5.5 | | | | 2 |
| | 必修 Required | 0700054 | 线性代数 Linear Algebra | 40 | 2.5 | | | | 2 |
| | 必修 Required | 0700071 | 复变函数与积分变换 Complex Function | 40 | 2.5 | | | | 3 |
| | 必修 Required | 0700063 | 概率论与数理统计（三） Probability and Statistics (Ⅲ) | 40 | 2.5 | | | | 3 |
| | 必修 Required | 0700048 | 大学物理（一） Physics (Ⅰ) | 64 | 4 | | | | 2 |
| | 必修 Required | 0700049 | 大学物理（二） Physics (Ⅱ) | 64 | 4 | | | | 3 |
| | 必修 Required | 0706891 | 物理实验（一） Physics Experiments (Ⅰ) | 32 | 1 | | 32 | | 2 |
| | 必修 Required | 0706901 | 物理实验（二） Physics Experiments (Ⅱ) | 24 | 0.8 | | 24 | | 3 |
| | 必修 Required | 0827781 | 计算机与程序设计基础（C++） Fundamental of Computer Programming (C++) | 48 | 3 | | | 8 | 1 |
| | 必修 Required | 0833174 | 数据库技术及应用 Technology and Application of Database | 32 | 2 | | | 8 | 4 |
| | 必修 Required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | | | 人文社会科学公共选修课 Electives in the Humanities and Social Science | 160 | 10 | | | | 1-8 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 学科大类基础课程 Discipline-related General Courses | 必修 Required | 0705071 | 普通生物学（三） General Biology Ⅲ | 32 | 2 | | | | 1 |
| | 必修 Required | 0704531 | 无机及分析化学(含实验) Inorganic and Analytical Chemistry (Including Experiments) | 96 | 6 | | 32 | | 1 |
| | 必修 Required | 0704583 | 生物信息学概论 Introduction to Bioinformatics | 16 | 1 | | | | 1 |
| | 必修 Required | 0704511 | 有机化学（含实验） Organic Chemistry (Including Experiments) | 96 | 6 | | 32 | | 2 |
| | 必修 Required | 0703081 | 生物化学 Biochemistry | 88 | 5.5 | | | | 3 |
| | 必修 Required | 0704132 | 生物化学实验（一） Experiments in Biochemistry I | 24 | 0.8 | | 24 | | 3 |
| | 必修 Required | 0704142 | 生物化学实验（二） Experiments in Biochemistry II | 24 | 0.8 | | 24 | | 4 |
| | 必修 Required | 0700893 | 细胞生物学 Cellular Biology | 56 | 3.5 | | | | 4 |
| | 必修 Required | 0702745 | 细胞生物学实验 Experiments in Cellular Biology | 24 | 0.8 | | 24 | | 4 |
| | 必修 Required | 0800593 | 数据结构与算法 Data Structure and Algorithm | 56 | 3.5 | | | 16 | 4 |
| | 必修 Required | 0701021 | 分子生物学 Molecular Biology | 56 | 3.5 | | | | 5 |
| | 必修 Required | 0702752 | 分子生物学实验 Experiments in Molecular Biology | 24 | 0.8 | | 24 | | 5 |
| | 必修 Required | 0701053 | 遗传学 Genetics | 48 | 3 | | | | 5 |
| | 必修 Required | 0703103 | 遗传学实验 Experiments in Genetics | 32 | 1 | | 32 | | 5 |
| | 必修 Required | 0701112 | 生物统计学 Biostatistics | 32 | 2 | | | | 5 |
| | 必修 Required | 0702781 | 药学基础 Fundamentals of Pharmacology | 32 | 2 | | | | 5 |
| | 必修 Required | 0701262 | 基因组学 Genomics | 32 | 2 | | | | 6 |
| | 必修 Required | 0702912 | 蛋白质组学 Proteomics | 32 | 2 | | | | 6 |
| | 必修 Required | 0705062 | 代谢组学 Metabonomics | 16 | 1 | | | | 6 |
| | 必修 Required | 0700691 | 仪器分析 Instrumental Analysis | 32 | 2 | | | | 4 |
| | 必修 Required | 0701273 | 生物信息学 Bioinformatics | 56 | 3.5 | | | 16 | 4 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业核心课程 Major-specific Core Courses | 必修 Required | 0703343 | 生物信息 Perl 编程<br>Bioinformatic Perl Programming | 16 | 1 | | | 8 | 4 |
| | 必修 Required | 0704722 | 生物信息资源与实践<br>Bioinformatics Resources & Practice | 48 | 3 | | | 24 | 5 |
| | 必修 Required | 0703032 | 系统生物学<br>Systems Biology | 32 | 2 | | | | 5 |
| | 必修 Required | 0704792 | 系统生物学实验<br>Experiments in Systems Biology | 32 | 1 | | 32 | | 6 |
| | 必修 Required | 0706172 | 定量生理学<br>Quantitative Physiology: Cells & Tissues | 32 | 2 | | | | 6 |
| | 必修 Required | 0704731 | 生物信息数据挖掘<br>Bioinformation Data Mining | 48 | 3 | | | 16 | 6 |
| | 必修 Required | 0701252 | 生物芯片<br>BioChip | 32 | 2 | | | | 7 |
| 专业方向课程 Major-specific Electives | | | 专业方向选修课 | 96 | 7 | | | | |
| | 选修 Elective | 0703384 | 药物分子设计<br>Molecular Design for Pharmaceutical | 32 | 2 | | | 16 | 7 |
| | 选修 Elective | 0827981 | Java 与生物信息软件设计与开发<br>Java and Bioinformatics Software Design & Development | 32 | 2 | | | | 7 |
| | 选修 Elective | 0700991 | 生物物理学<br>Biophysics | 48 | 3 | | | | 6 |
| | 选修 Elective | 0714112 | 生物医学传感检测与仪器<br>Biomedical Sensor, Testing and Instrumentation | 40 | 2.5 | | | | 6 |
| | 选修 Elective | 0714122 | 生物医学传感检测与仪器实验<br>Experiments in Biomedical Sensor, Detection and Instrumentation | 24 | 0.8 | | 24 | | 6 |
| | 选修 Elective | 0703954 | 生物科学大实验<br>Experiments in Bioscience | 48 | 1.5 | | 48 | | 5 |
| | 选修 Elective | 0702761 | 解剖与生理学<br>Anatomy and Physiology | 64 | 4 | | | | 5 |
| | 选修 Elective | 0702772 | 解剖与生理学实验<br>Experiments in Anatomy and Physiology | 32 | 1 | | 32 | | 5 |
| | | | 可选修生命科学与技术学院其它专业课程 | | | | | | |
| | 必修 Required | 1300013 | 军事训练<br>Military Training | 2w | 1 | | | | 1 |
| | 必修 Required | 1300536 | 认知实习<br>Perceive Practice | 1w | 0.5 | | | | 1 |
| | 必修 Required | 1306051 | 安全教育<br>Safe Education | 1w | 0.5 | | | | 1 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 实践环节 Practical Training Items | 必修 Required | 1302331 | 金工实习 Industrial Practice | 2w | 1 | | | | 3 |
| | 必修 Required | 1304411 | 电工实习 Electrical Engineering Practice | 2w | 1 | | | | 4 |
| | 必修 Required | 1327694 | 生产实习 Engineering Internship | 4w | 2 | | | | 6 |
| | 必修 Required | 130044a | 科研训练 Research Training | 1w | 0.5 | | | | 6 |
| | 必修 Required | 130042a | 课程设计 Course Project | 2w | 1 | | | | 7 |
| | 必修 Required | 130004a | 毕业设计（论文） Undergraduate Thesis | 16w | 8 | | | | 8 |

# 生物制药专业本科培养计划

# Undergraduate Program for Specialty in Biopharmaceutics

## 一、培养目标

### Ⅰ. Program Objective

培养德智体全面发展，具有健全人格和国际化视野，具备坚实的化学、生物学和药学基础，系统掌握生物技术、纳米技术、现代制药技术的基本技能，熟悉生物制药及其相关领域，具有良好的科学素养和较强的创新能力，面向生物医药新兴产业的高级复合型专业人才。既可从事生物医药研究、开发、生产、检验、质量控制等工作，也可进一步深造，报考生物化学、生物技术、制药工程等相关专业的研究生。

Biopharmaceutics is an emerging cross-disciplinary area that has revolutionized the traditional industry and research in the 21th century. Students with training in Biopharmacetics are highly desirable for pharmaceutical industry in research, development, production, testing and quality control as well as academic research in biochemistry, biotechnology and pharmaceutical engineering. Our goal is to provide students with solid foundation in Chemical, Biological and Pharmaceutical Science; versatile skills in Biotechnology, Nano-technology and Modern Pharmaceutical Technology; and broad knowledge of multiple bio-pharmaceutical related fields as competitive and independent researchers or scientists.

## 二、基本规格要求

### Ⅱ. Learning Outcomes

本专业学生应牢固掌握化学、生物学和药学的基本理论知识，并受到工程技术方面的良好训练。毕业生能够胜任生物制药相关研究与开发工作，能够在科技成果转化及产业化过程中发挥骨干作用。

毕业生应获得以下几方面的知识和能力：

1．掌握化学、生物学、药学等方面的基本理论和知识；

2．掌握生物技术、纳米技术、现代制药技术的基本原理和实验技能；

3．熟悉国家生物医药产业法律法规、指导原则和知识产权政策，了解生物医药技术的最新发展动态和应用前景、生物医药产业的发展状况；

4．能熟练运用网络信息技术，具备较强的文献检索、英文读写能力；

5．具有一定的实验设计、实验操作、结果分析、论文撰写、学术交流的能力；

6．具有一定的研究和开发生物药物的能力。

Students will have a solid understanding of basic knowledge of chemistry, biology and medicine and receive training in pharmaceutical engineering. Graduates are qualified for jobs in pharmaceutical research and development, and will play a key role in the technology transformation.

Graduates should be given the following knowledge and abilities:

1. Master chemistry, biology, medicine and other basic theories and knowledge;

2. Master the basic principle and experimental skills of biotechnology, nanotechnology, and modern pharmaceutical technology.

3. Be familiar with the national laws and regulations, guidelines and intellectual property policies in Biomedical industry, to understand the new developments in biomedical technology, the dynamic and prospects, the development of bio-pharmaceutical industry;

4. Skilled use of network information technology, with a strong literature search, reading and written

skills in English;

5. Has a certain experimental design, experimental operation, result analysis, thesis writing, and academic exchange capacity;

6. Certain research and development capabilities of biological drugs.

## 三、培养特色

## Ⅲ. Program Highlights

以学生为中心，引导学生的专业兴趣，激发学生的潜能，发展学生的创新能力；以生物技术药物为主要方向，以纳米药物为专业特色，面向生物医药产业培养高级复合型专业人才。自大学二年级开始，采取导师制，学生直接进入实验室参加课题研究和实验工作。

This is a student-oriented-program with the objective to motivate students' interests in biopharmaceutic profession, and maximize students' potential in research and creativity. The goal of the program is to produce students for modern professionals for biomedical industry with focus on the biotechnology medicine and special interest in the nanomedicine.

## 四、主干学科

## Ⅳ. Main Disciplines

化学 Chemistry、生物学 Biology、药学 Pharmaceutics

## 五、学制与学位

## Ⅴ. Program Length and Degree

学制：四年

Duration：4 years

授予学位：工学学士

Degrees Conferred：Bachelor of Engineering

## 六、学时与学分

## Ⅵ. Credits Hours and Units

完成学业最低课内学分(含课程体系与集中性实践环节)要求：160 学分。其中，专业基础课程、专业核心课程学分不允许用其他课程学分进行学分冲抵和替代。

Minimum Curricular Credits for the completion of degree (including courses practical internship ): 160credits. Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：5 学分。

Minimum Extracurricular Credits：5 credits.

1．课程体系学时与学分

Course Credits Hours and Units

| 课程类别 | | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|---|
| 通识教育基础课程 | | 必修 | 992/56.3 | 38.2 |
| | | 选修 | 160/10 | 6.1 |
| 学科(大类)基础课程 | | 必修 | 480/25.6 | 18.5 |
| 专业课程 | 专业核心课程 | 必修 | 816/43.3 | 31.3 |
| | 专业选修课程 | 选修 | 152/8.8 | 5.9 |
| 合计 | | | 2600/144 | 100 |

| Course type | | Required/Elective | Hrs/Crs | Percentage (%) |
|---|---|---|---|---|
| General Education Core Curriculum | | Required | 992/56.3 | 38.2 |
| | | Elective | 160/10 | 6.1 |
| General Basic Subdisciplinary | | Required | 480/25.6 | 18.5 |
| Major-specific courses | Core | Required | 816/43.3 | 31.3 |
| | Elective | Elective | 152/8.8 | 5.9 |
| Total | | | 2600/144 | 100 |

2．集中性实践教学环节周数与学分

Practicum Credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 6.3 |
| 安全教育 | 必修 | 1/0.5 | 3.2 |
| 认知实习 | 必修 | 1/0.5 | 3.2 |
| 金工实习 | 必修 | 2/1 | 6.3 |
| 科研训练 | 必修 | 2/1 | 6.3 |
| 生产实习 | 必修 | 4/2 | 12.5 |
| 课程设计 | 必修 | 4/2 | 12.5 |
| 毕业设计 | 必修 | 16/8 | 50 |
| 合计 | | 32/16 | 100 |

| Course Title | Required/Elective | Wks/Crs | Percentage（%） |
|---|---|---|---|
| Military Training | Required | 2/1 | 6.3 |
| Safety Education | Required | 1/0.5 | 3.2 |
| Perceive Practice | Required | 1/0.5 | 3.2 |
| Industrial Practice | Required | 2/1 | 6.3 |
| Research Training | Required | 2/1 | 6.3 |
| Engineering Internship | Required | 4/2 | 12.5 |
| Course Project | Required | 4/2 | 12.5 |
| Undergraduate Thesis | Required | 16/8 | 50 |
| Total | | 32/16 | 100 |

3．课外学分

Extracurricular Credits

| 序号 | 课外活动和 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 2 | 英语及计算机考试 | 全国大学英语六级考试 | 获六级证书者 | 2 |
| | | 托福考试 | 达 90 分以上者 | 3 |
| | | 雅思考试 | 达 6.5 分以上者 | 3 |
| | | GRE 考试 | 达 1350 分以上者 | 3 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |

续表

| 序号 | 课外活动和 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 3 | 竞赛 | 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 4 | 论文 | 在全国性刊物发表论文 | 每篇论文 | 2~3 |
| 5 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1~3 |
| 6 | 实验 | 视创新情况 | 每项 | 1~3 |

注：参加校体育运动会获第一名、第二名者与校级一等奖等同，获第三名至第五名者与校级二等奖等同，获第六至第八名者与校级三等奖等同。

| No. | Activities | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Community Engagement | Submitting a report and passing the oral defense | | 1 |
| | | Individuals awarded “Active Participant” / Teams awarded “Excellent Performance” by HUST or Hubei Youth League Committee | | 2 |
| 2 | Examinations in English and Computer | CET-6 | Certificate | 2 |
| | | TOEFL | 90 Points or Higher | 3 |
| | | IELTS | 6.5 Points or Higher | 3 |
| | | GRE | 1350 Points or Higher | 3 |
| | | National Computer Rank Examinations | Certificate Grade 2 or Higher | 2 |
| | | National Compute Software Qualification | Programmer | 2 |
| | | | Senior Programmer | 3 |
| | | | System Analyst | 4 |
| 3 | Competitions | University Level | First Prize | 3 |
| | | | Second Prize | 2 |
| | | | Third Prize | 1 |
| | | Provincial Level | First Prize | 4 |
| | | | Second Prize | 3 |
| | | | Third Prize | 2 |
| | | National Level | First Prize | 6 |
| | | | Second Prize | 4 |
| | | | Third Prize | 3 |
| 4 | Academic Papers | Published in national-level journals | Each paper | 2~3 |
| 5 | Research Program | Contribution and research capability | Each Program | 1~3 |
| 6 | Experiments | Innovation capacity | Each Experiment | 1~3 |

Note：In HUST Sports Meeting, the first and the second prize, and the sixth prize to eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## Ⅶ. Main Courses

生物化学与分子生物学 Biochemistry and Molecular Biology、医学细胞生物学 Medical Cellular Biology、微生物学 Microbiology、生物制药工艺与设备 Biopharmaceutical technique and Equipment、药

理学 Pharmacology、药物化学 Medicinal Chemistry、药剂学 Pharmaceutics、生物药物分析 Biopharmaceutical Analysis、生物制药专业概论 Introduction to Biopharmaceutics、生物制药技术 Preparation Technique of Biomedicines、生物药剂学与药物动力学 Bio-Pharmaceutics and Pharmacokinetics、纳米药物制剂 Nanopharmaceuticals、纳米诊断与检测技术 Nano-diagnostic and detection technology 等。

## 八、主要实践教学环节

## Ⅷ. Practicum Module（Experiments Included）

物理实验 Physical Experiment、有机化学实验 Experiment in Organic Chemistry、普通生物学实验 Experiment in General Biology、生物化学与分子生物学实验 Experiment in Biochemistry and Molecular Biology、微生物学实验 Experiments of Microbiology、生物制药大实验 Experiments of Biopharmaceutics、生物技术大实验 Exp. In Biotechnology、纳米药物实验 Exp. In Nanomedicine、军事训练 Military Training、认知实习 Perceive Practice、生产实习 Engineering Internship、科研训练 Research Training、课程设计 Course Project、毕业设计 Undergraduate Thesis。

## 九、教学进程计划表

## Ⅸ. Course Schedule

院（系）：生命科学与技术学院　　专业：生物制药

School (Department)：School of Life Science & Technology　　Specialty：Biopharmaceutics

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必修 Required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必修 Required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必修 Required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必修 Required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必修 Required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概述 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必修 Required | 0100741 | 形势与政策 Situation and Policy | 32 | 2 | 14 | | | 1-6 |
| | 必修 Required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | 必修 Required | 0508453 | 综合英语（一） Comprehensive English （I） | 56 | 3.5 | | | | 1 |
| | 必修 Required | 0508463 | 综合英语（二） Comprehensive English （II） | 56 | 3.5 | | | | 2 |
| | 必修 Required | 0700011 | 微积分（一）（上） Calculus（Ⅰ）Part I | 88 | 5.5 | | | | 1 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必修 Required | 0700012 | 微积分（一）（下） Calculus (Ⅰ) Part II | 88 | 5.5 | | | | 2 |
| | 必修 Required | 0700048 | 大学物理（一） Physics (Ⅰ) | 64 | 4 | | | | 2 |
| | 必修 Required | 0700049 | 大学物理（二） Physics (Ⅱ) | 64 | 4 | | | | 3 |
| | 必修 Required | 0706891 | 物理实验（一） Physics Experiments (Ⅰ) | 32 | 1 | | 32 | | 2 |
| | 必修 Required | 0706901 | 物理实验（二） Physics Experiments (Ⅱ) | 24 | 0.8 | | 24 | | 3 |
| | 必修 Required | 0400111 | 大学体育（一） Physical Education(Ⅰ) | 32 | 1 | | | | 1 |
| | 必修 Required | 0400121 | 大学体育（二） Physical Education (Ⅱ) | 32 | 1 | | | | 2 |
| | 必修 Required | 0400131 | 大学体育（三） Physical Education(Ⅲ) | 32 | 1 | | | | 3 |
| | 必修 Required | 0400141 | 大学体育（四） Physical Education(Ⅳ) | 32 | 1 | | | | 4 |
| | 必修 Required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 1 |
| | 必修 Required | 0827781 | 计算机与程序设计基础（C++） Fundamental of Computer Programming (C++) | 48 | 3 | | | 8 | 1 |
| | 必修 Required | 0833174 | 数据库技术及应用 Technology and Application of Database | 32 | 2 | | | 8 | 2 |
| | 必修 Required | 0700063 | 概率论与数理统计（三） Probability and Statistics (Ⅲ) | 40 | 2.5 | | | | 3 |
| | | | 人文社科类选修课程 Electives in Humanities and Social Science | 160 | 10 | | | | |
| 学科大类基础课程 Discipline-related General Courses | 必修 Required | 0707311 | 医学基础化学 Basic Chemistry for Higher Medical Education | 88 | 5.5 | | | | 1 |
| | 必修 Required | 0700122 | 有机化学 Organic Chemistry | 64 | 4 | | | | 2 |
| | 必修 Required | 0703485 | 有机化学实验 Exp. Of Organic Chemistry | 32 | 1 | | 32 | | 2 |
| | 必修 Required | 0702725 | 物理化学 Physical Chemistry | 32 | 2 | | | | 3 |
| | 必修 Required | 0703497 | 物理化学实验 Exp. Of Physical Chemistry | 32 | 1 | | 32 | | 3 |
| | 必修 Required | 1002761 | 生物化学与分子生物学（一） Biochemistry and Molecular Biology Ⅰ | 56 | 3.5 | | | | 3 |
| | 必修 Required | 1002771 | 生物化学与分子生物学（二） Biochemistry and Molecular Biology Ⅱ | 32 | 2 | | | | 4 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必修 Required | 1002782 | 生物化学与分子生物学实验（一） Experiments in Biochemistry and Molecular Biology Ⅰ | 24 | 0.8 | | 24 | | 3 |
| | 必修 Required | 1002792 | 生物化学与分子生物学实验（二） Experiments in Biochemistry and Molecular Biology Ⅱ | 24 | 0.8 | | 24 | | 4 |
| | 必修 Required | 0702761 | 解剖与生理学 Anatomy and Physiology | 64 | 4 | | | | 5 |
| | 必修 Required | 0702772 | 解剖与生理学实验 Experiments in Anatomy and Physiology | 32 | 1 | | 32 | | 5 |
| 专业核心课程 core courses in specialty | 必修 Required | 0714141 | 生物制药专业概论 Introduction to pharmaceutics | 16 | 1 | | | | 1 |
| | 必修 Required | 0702781 | 药学基础 Fundamentals of Pharmacology | 32 | 2 | | | | 1 |
| | 必修 Required | 0701411 | 药物化学 Medicinal Chemistry | 32 | 2 | | | | 3 |
| | 必修 Required | 1001092 | 医学细胞生物学 Medical Cellular Biology | 40 | 2.5 | | | | 4 |
| | 必修 Required | 0707731 | 医学细胞生物学实验 Exp. of Medical Cellular Biology | 24 | 0.8 | | 24 | | 4 |
| | 必修 Required | 1000044 | 药理学 Pharmacology | 48 | 3 | | | | 4 |
| | 必修 Required | 1002305 | 药剂学 Pharmaceutics | 48 | 3 | | | | 3 |
| | 必修 Required | 0701653 | 微生物学 Microbiology | 48 | 3 | | | | 4 |
| | 必修 Required | 0701665 | 微生物学实验 Experiments in Microbiology | 32 | 1 | | 32 | | 4 |
| | 必修 Required | 0707331 | 生物制药大实验 Experiments of Biopharmaceutics | 64 | 2 | | 64 | | 7 |
| | 必修 Required | 0701093 | 发酵工程 Fermentation Engineering | 32 | 2 | | | | 5 |
| | 必修 Required | 0705031 | 基因工程原理 Principle of Gene Engineering | 32 | 2 | | | | 6 |
| | 必修 Required | 0701065 | 生物技术大实验 Experiments in Biotechnology | 64 | 2 | | 64 | | 6 |
| | 必修 Required | 0714161 | 生物药物分析 Biopharmaceutical Analysis | 32 | 2 | | | | 7 |
| | 必修 Required | 1003962 | 生物药物分析实验 Exp. of Biopharmaceutical Analysis | 32 | 1 | | 32 | | 7 |
| | 必修 Required | 1002231 | 生物药剂学与药代动力学 Biopharmaceutics and Pharmacokinetics | 32 | 2 | | | | 5 |
| | 必修 Required | 0717022 | 生物制药技术 Preparation Technique of Biomedicines | 48 | 3 | | | | 6 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业核心课程 core courses in specialty | 必修 Required | 0704011 | 生物制药工艺与设备 Biopharmaceutical technique and Equipment | 32 | 2 | | | | 6 |
| | 必修 Required | 0717032 | 纳米药物制剂 Nanopharmaceuticals | 32 | 2 | | | | 5 |
| | 必修 Required | 0714192 | 纳米生物材料 Introduction of Nano-biomaterials | 32 | 2 | | | | 5 |
| | 必修 Required | 0714202 | 纳米诊断与检测技术 Nano-diagnostic and detection technology | 32 | 2 | | | | 5 |
| | 必修 Required | 0707341 | 纳米药物实验 Exp. In Nanomedicine | 32 | 1 | | 32 | | 6 |
| 专业选修课程 elective courses in specialty | | | 专业方向选修课程 Elective in Specialty Biopharmaceutics | 152 | 8.8 | | | | |
| | 选修 Elective | 0703051 | 免疫学 Immunology | 32 | 2 | | | | 4 |
| | 选修 Elective | 0707261 | 免疫学实验 Experiments in Immunology | 24 | 0.8 | | 24 | | 4 |
| | 选修 Elective | 1002363 | 药用植物学 Pharmaceutical Botany | 32 | 2 | | | | 5 |
| | 选修 Elective | 0701182 | 酶工程 Enzyme Engineering | 32 | 2 | | | | 5 |
| | 选修 Elective | 0704241 | 生物分离技术 Bioseparation Technology | 32 | 2 | | | | 6 |
| | 选修 Elective | 0703121 | 天然药物化学 Phytochemistry or Chemistry of Natural Products | 32 | 2 | | | | 6 |
| | 选修 Elective | 0717061 | 纳米肿瘤学 Nano-oncology | 32 | 2 | | | | 7 |
| | 选修 Elective | 0717071 | 分子医学影像学 Molecular Medical Imaging | 32 | 2 | | | | 7 |
| | 选修 Elective | 0703384 | 药物分子设计 Molecular Design for Pharmaceutical | 32 | 2 | | | 16 | 7 |
| | | | 可选修生命科学与技术学院其它专业的课程 | | | | | | |
| 实践环节 Practical Training Items | 必修 Required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必修 Required | 1306051 | 安全教育 Safety Education | 1w | 1 | | | | 0.5 |
| | 必修 Required | 1300536 | 认知实习 Perceive Practice | 1w | 0.5 | | | | 1 |
| | 必修 Required | 1302331 | 金工实习 Industrial Practice | 2w | 1 | | | | 3 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 实践环节 Practical Training Items | 必修 Required | 1300446 | 科研训练 Research Training | 2w | 1 | | | | 5 |
| | 必修 Required | 1327694 | 生产实习 Engineering Internship | 4w | 2 | | | | 6 |
| | 必修 Required | 130042b | 课程设计 Course Project | 4w | 2 | | | | 7 |
| | 必修 Required | 130004a | 毕业设计（论文） Undergraduate Thesis | 16w | 8 | | | | 8 |

# 生物信息学专业本科培养计划
# （国家生命科学与技术人才培养基地班）
# Undergraduate Program for Class of National Life Science and Technology Education Base

## 一、培养目标

### Ⅰ. Program Objective

培养德、智、体全面发展，基础理论扎实、知识面宽、实践能力强、综合素质高、适应新世纪生命科学研究与生物技术相关产业发展需要，在生物信息获取、处理、开发与利用等方面具有突出特色的高素质人才。毕业生既能从事生命科学领域的基础研究以及新技术与新方法的研究开发，为硕士研究生提供良好的生源，也能胜任生物技术、信息技术等相关产业和部门的技术与管理工作。

This program is dedicated to educating undergraduates to get comprehensive development in moral, intelligent and physical abilities, to possess solid ground of fundamental theory, wide-ranged knowledge and strong practical ability, especially in the fields of bioinformation acquisition, processing, exploitation and application, to meet the requirements of new century development of life science and biotechnology-related industries. As a result, the graduates can be engaged in the basic research of life science, thetechnology development or management in industries related to biotechnology, information technology and so on.

## 二、基本规格要求

### Ⅱ. Learning Outcomes

本专业学生应掌握生命科学、计算机技术、生物信息技术等的基本理论知识，并受到工程技术方面的良好训练。本科毕业生能够胜任生命科学相关研究与相关技术开发工作，能够在科技成果转化及产业化过程中发挥技术骨干作用。

Students should possess essential theories and knowledge in life science, computer technology, bioinformation technology and so on, and be well educated in engineering training and practice. The graduates are expected to be qualified for Research & Development in life science and development, and to play an important role in the transformation and industrialization of research results.

毕业生应获得以下几方面的知识和能力：

1. 扎实的数理化基础；
2. 生物科学与技术、医学、药学、电子与计算机技术、生物信息技术的基本理论和方法；
3. 很强的计算机应用能力和运用生物信息技术解决实际问题的能力；
4. 较强的英语语言能力；
5. 文献检索、资料查询、和撰写科学论文的能力；
6. 较好的人文社科知识和人文素质，较强的协调与组织能力；
7. 较强的创新精神与创新能力。

By the time of graduation, the students of the program are required to possess:

1. Solid ground in mathematics, physics and chemistry；

2. Principles and methods of biological science and technology, medicine, pharmacy, electronic and computer technology, and bioinformation technology;

3.Strong ability and skills of solving real-world problems with computer and bioinformation

technology;

4. Strong English language ability;

5. Ability in searching for references, documents, and writing scientific articles

6. Attainment in humanities & art, cooperative and organizational skills

7. Sense of creation and innovation.

## 三、培养特色

## Ⅲ. Program Highlights

以生物科学、生物技术、信息技术为基础，以生物信息的获取、处理、开发与利用为核心，面向生命科学研究与生物技术相关产业。重视基础理论，强调宽口径培养，注重安排导师指导学生参与科研，着眼全面提高学生的综合素质，培养具有创新能力的复合型人才。

Taking the biological science, biotechnology and information technology as the foundation, the bioinformation acquisition, processing, exploitation and application as the core, this program aims to cultivate all-around and innovative talents for the research of life science and the development of biotechnology related industries.

## 四、主干学科

## Ⅳ. Main Disciplines

生命科学 Life Science，计算机科学 Computer Science，生物信息学 Bioinformatics

## 五、学制与学位

## Ⅴ. Program Length and Degree

学制：四年

Duration：4 years

授予学位：工学学士

Degrees Conferred：Bachelor of Engineering

## 六、学时与学分

## Ⅵ. Credits Hours and Units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：160.5 学分。其中，专业基础课程、专业核心课程学分不允许用其他课程学分进行学分冲抵和替代。

Minimum Credits Required for Class (including Curriculum and Practical Training): 160.5 credits. Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：5 学分。

Minimum Credits of Extracurricular Activities and Practice: 5 credits.

1. 课程体系学时与学分

Hours/Credits of Course System

| 课程类别 | | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|---|
| 通识教育基础课程 | | 必修 | 1072/61.3 | 41.8 |
| | | 选修 | 160/10 | 6.9 |
| 学科大类基础课程 | | 必修 | 816/47.2 | 32.8 |
| 专业课程 | 专业核心课程 | 必修 | 328/19.5 | 13.5 |
| | 专业选修课程 | 选修 | 112/7 | 4.9 |
| 合计 | | | 2488/145 | 100 |

| Course Classified | | Course Nature | Hrs/Crs | Percentage (%) |
|---|---|---|---|---|
| Basic Courses in General Education | | Required | 1072/61.3 | 41.8 |
| | | Elective | 160/10 | 6.9 |
| Basic Courses in General Discipline | | Required | 816/47.2 | 32.8 |
| Courses in Specialty | Common Core Courses | Required | 328/19.5 | 13.5 |
| | Specialty-Oriented Courses | Elective | 112/7 | 4.9 |
| Total | | | 2488/145 | 100 |

2. 集中性实践教学环节周数与学分

Weeks/Credits of Intensified Internship and Practical Training

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2w/1 | 6.5 |
| 安全教育 | 必修 | 1w/0.5 | 3.3 |
| 金工实习 | 必修 | 2w/1 | 6.5 |
| 电工实习 | 必修 | 2w/1 | 6.5 |
| 认知实习 | 必修 | 1w/0.5 | 3.3 |
| 生产实习 | 必修 | 4w/2 | 13 |
| 课程设计 | 必修 | 2w/1 | 6.5 |
| 科研训练 | 必修 | 1w/0.5 | 3.3 |
| 毕业设计（论文） | 必修 | 16w/8 | 51.6 |
| 合计 | | 31 w/15.5 | 100 |

| Internship & Practical Training | Course Nature | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2w/1 | 6.5 |
| Safety Education | Required | 1w/0.5 | 3.3 |
| Industrial Practice | Required | 2w/1 | 6.5 |
| Electrical Engineering Practice | Required | 2w/1 | 6.5 |
| Cognitive Practice | Required | 1w/0.5 | 3.3 |
| Engineering Internship | Required | 4w/2 | 13 |
| Course Project | Required | 2w/1 | 6.5 |
| Science Research Practice | Required | 1w/0.5 | 3.3 |
| Undergraduate Thesis | Required | 16w/8 | 51.6 |
| Total | | 30w/15.5 | 100 |

3. 课外学分

Extracurricular Credits

| 序号 | 课外活动和 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 2 | 英语及计算机考试 | 全国大学英语六级考试 | 获六级证书者 | 2 |
| | | 托福考试 | 达 90 分以上者 | 3 |
| | | 雅思考试 | 达 6.5 分以上者 | 3 |
| | | GRE 考试 | 达 1350 分以上者 | 3 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |
| 3 | 竞赛 | 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |

续表

| 序号 | 课外活动和 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 3 | 竞赛 | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 4 | 论文 | 在全国性刊物发表论文 | 每篇论文 | 2-3 |
| 5 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1-3 |
| 6 | 实验 | 视创新情况 | 每项 | 1-3 |

注：参加校体育运动会获第一名、第二名者与校级一等奖等同，获第三名至第五名者与校级二等奖等同，获第六至第八名者与校级三等奖等同。

| No. | Activities | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Community Engagement | Submitting a report and passing the oral defense | | 1 |
| | | Individuals awarded “Active Participant” / Teams awarded “Excellent Performance” by HUST or Hubei Youth League Committee | | 2 |
| 2 | Examinations in English and Computer | CET-6 | Certificate | 2 |
| | | TOEFL | 90 Points or Higher | 3 |
| | | IELTS | 6.5 Points or Higher | 3 |
| | | GRE | 1350 Points or Higher | 3 |
| | | National Computer Rank Examinations | Certificate Grade 2 or Higher | 2 |
| | | Qualifications for Computer and Software Technology Proficiency | Programmer | 2 |
| | | | Senior Programmer | 3 |
| | | | System Analyst | 4 |
| 3 | Competitions | University Level | First Prize | 3 |
| | | | Second Prize | 2 |
| | | | Third Prize | 1 |
| | | Provincial Level | First Prize | 4 |
| | | | Second Prize | 3 |
| | | | Third Prize | 2 |
| | | National Level | First Prize | 6 |
| | | | Second Prize | 4 |
| | | | Third Prize | 3 |
| 4 | Academic Papers | Published in national-level journals | Each Paper | 2~3 |
| 5 | Research Program | Contribution and research capability | Each Program | 1~3 |
| 6 | Experiments | Innovation capacity | Each Experiment | 1~3 |

Note: In HUST Sports Meeting, the first and the second prize, the third to the fifth prize, and the sixth prize to the eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## Ⅶ. Main Courses

微积分 Calculus、大学物理 Physics、线性代数 Linear Algebra、复变函数与积分变换 Complex Function、概率论与数理统计 Probability and Statistics、数据结构与算法 Data Structure and Algorithm、数据库技术及应用 Technology and Application of Database、普通生物学（三）General Biology III、遗传学 Genetics、生物化学 Biochemistry、分子生物学 Molecular Biology、细胞生物学 Cellular Biology、无机及分析化学 Inorganic and Analytical Chemistry、有机化学 Organic Chemistry、药学基础 Fundamentals of Medicine、生物信息学 Bioinformatics、生物信息 Perl 编程 Bioinformatic Perl Programming、系统生物学 Systems Biology、生物信息资源与实践 Bioinformatics Resources & Practice、生物信息数据挖掘 Bioinformation Data Mining、仪器分析 Instrumental Analysis、基因组学 Genomics、蛋白质组学 Proteomics、代谢组学 Metabolomics、定量生理学 Quantitative

Physiology、生物统计学 Biostatistics、生物芯片 Biochip。

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Practicum Module（Experiments Included）

遗传学实验 Experiments of Genetics、细胞生物学实验 Experiments in Cellular Biology、分子生物学实验 Experiments in Molecular Biology、生物化学实验 Experiments in Biochemistry、无机及分析化学实验 Experiments in Inorganic and Analytical Chemistry、有机化学实验 Experiments in Organic Chemistry、遗传学实验 Experiments of Genetics、系统生物学实验 Experiments in Systems Biology、课程设计 Course Project、认知实习 Perceive Practice、科研训练 Research Training、生产实习 Engineering Internship、军事训练 Military Training、毕业设计（论文）Undergraduate Thesis。

## 九、教学进程计划表

## Ⅸ. Course Schedule

院（系）：生命科学与技术学院　　专业：生物信息学（基地班）

School(Department):School of Life Science & Technology　　Specialty: Bioinformatics

| 课程类别 Course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必修 Required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必修 Required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必修 Required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必修 Required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必修 Required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概述 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必修 Required | 0100741 | 形势与政策 Situation and Policy | 32 | 2 | 14 | | | 1-6 |
| | 必修 Required | 0508453 | 综合英语（一） Comprehensive English （I） | 56 | 3.5 | | | | 1 |
| | 必修 Required | 0508463 | 综合英语（二） Comprehensive English （II） | 56 | 3.5 | | | | 2 |
| | 必修 Required | 0400111 | 大学体育（一） Physical Education(Ⅰ) | 32 | 1 | | | | 1 |
| | 必修 Required | 0400121 | 大学体育（二） Physical Education (Ⅱ) | 32 | 1 | | | | 2 |
| | 必修 Required | 0400131 | 大学体育（三） Physical Education(Ⅲ) | 32 | 1 | | | | 3 |
| | 必修 Required | 0400141 | 大学体育（四） Physical Education(Ⅳ) | 32 | 1 | | | | 4 |
| | 必修 Required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 1 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必修 Required | 0700011 | 微积分（一）（上） Calculus (Ⅰ) Part I | 88 | 5.5 | | | | 1 |
| | 必修 Required | 0700012 | 微积分（一）（下） Calculus (Ⅰ) Part II | 88 | 5.5 | | | | 2 |
| | 必修 Required | 0700054 | 线性代数 Linear Algebra | 40 | 2.5 | | | | 2 |
| | 必修 Required | 0700071 | 复变函数与积分变换 Complex Function | 40 | 2.5 | | | | 3 |
| | 必修 Required | 0700063 | 概率论与数理统计（三） Probability and Statistics (Ⅲ) | 40 | 2.5 | | | | 3 |
| | 必修 Required | 0700048 | 大学物理（一） Physics (Ⅰ) | 64 | 4 | | | | 2 |
| | 必修 Required | 0700049 | 大学物理（二） Physics (Ⅱ) | 64 | 4 | | | | 3 |
| | 必修 Required | 0706891 | 物理实验（一） Physics Experiments (Ⅰ) | 32 | 1 | | 32 | | 2 |
| | 必修 Required | 0706901 | 物理实验（二） Physics Experiments (Ⅱ) | 24 | 0.8 | | 24 | | 3 |
| | 必修 Required | 0827781 | 计算机与程序设计基础（C++） Fundamental of Computer Programming (C++) | 48 | 3 | | | 8 | 1 |
| | 必修 Required | 0833174 | 数据库技术及应用 Technology and Application of Database | 32 | 2 | | | 8 | 4 |
| | 必修 Required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | | | 人文社会科学公共选修课 Electives in the Humanities and Social Science | 160 | 10 | | | | 1-8 |
| 学科大类基础课程 Discipline-related General Courses | 必修 Required | 0705071 | 普通生物学（三） General Biology Ⅲ | 32 | 2 | | | | 1 |
| | 必修 Required | 0704531 | 无机及分析化学(含实验) Inorganic and Analytical Chemistry (Including Experiments) | 96 | 6 | | 32 | | 1 |
| | 必修 Required | 0704583 | 生物信息学概论 Introduction to Bioinformatics | 16 | 1 | | | | 1 |
| | 必修 Required | 0704511 | 有机化学（含实验） Organic Chemistry (Including Experiments) | 96 | 6 | | 32 | | 2 |
| | 必修 Required | 0703081 | 生物化学 Biochemistry | 88 | 5.5 | | | | 3 |
| | 必修 Required | 0704132 | 生物化学实验（一） Experiments in Biochemistry I | 24 | 0.8 | | 24 | | 3 |
| | 必修 Required | 0704142 | 生物化学实验（二） Experiments in Biochemistry II | 24 | 0.8 | | 24 | | 4 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 学科大类基础课程 Discipline-related General Courses | 必修 Required | 0700893 | 细胞生物学 Cellular Biology | 56 | 3.5 | | | | 4 |
| | 必修 Required | 0702745 | 细胞生物学实验 Experiments in Cellular Biology | 24 | 0.8 | | 24 | | 4 |
| | 必修 Required | 0800593 | 数据结构与算法 Data Structure and Algorithm | 56 | 3.5 | | | 16 | 4 |
| | 必修 Required | 0701021 | 分子生物学 Molecular Biology | 56 | 3.5 | | | | 5 |
| | 必修 Required | 0702752 | 分子生物学实验 Experiments in Molecular Biology | 24 | 0.8 | | 24 | | 5 |
| | 必修 Required | 0701053 | 遗传学 Genetics | 48 | 3 | | | | 5 |
| | 必修 Required | 0703103 | 遗传学实验 Experiments in Genetics | 32 | 1 | | 32 | | 5 |
| | 必修 Required | 0701112 | 生物统计学 Biostatistics | 32 | 2 | | | | 5 |
| | 必修 Required | 0702781 | 药学基础 Fundamentals of Pharmacology | 32 | 2 | | | | 5 |
| | 必修 Required | 0701262 | 基因组学 Genomics | 32 | 2 | | | | 6 |
| | 必修 Required | 0702912 | 蛋白质组学 Proteomics | 32 | 2 | | | | 6 |
| | 必修 Required | 0705062 | 代谢组学 Metabonomics | 16 | 1 | | | | 6 |
| 专业核心课程 Major-specific Core Courses | 必修 Required | 0700691 | 仪器分析 Instrumental Analysis | 32 | 2 | | | | 4 |
| | 必修 Required | 0701273 | 生物信息学 Bioinformatics | 56 | 3.5 | | | 16 | 4 |
| | 必修 Required | 0703343 | 生物信息 Perl 编程 Bioinformatic Perl Programming | 16 | 1 | | | 8 | 4 |
| | 必修 Required | 0704722 | 生物信息资源与实践 Bioinformatics Resources & Practice | 48 | 3 | | | 24 | 5 |
| | 必修 Required | 0703032 | 系统生物学 Systems Biology | 32 | 2 | | | | 5 |
| | 必修 Required | 0704792 | 系统生物学实验 Experiments in Systems Biology | 32 | 1 | | 32 | | 6 |
| | 必修 Required | 0706172 | 定量生理学 Quantitative Physiology: Cells & Tissues | 32 | 2 | | | | 6 |
| | 必修 Required | 0704731 | 生物信息数据挖掘 Bioinformation Data Mining | 48 | 3 | | | 16 | 6 |
| | 必修 Required | 0701252 | 生物芯片 BioChip | 32 | 2 | | | | 7 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业方向课程 Major-specific Electives | | | 专业方向选修课 | 96 | 7 | | | | |
| | 选修 Elective | 0703384 | 药物分子设计 Molecular Design for Pharmaceutical | 32 | 2 | | | 16 | 7 |
| | 选修 Elective | 0827981 | Java 与生物信息软件设计与开发 Java and Bioinformatics Software Design & Development | 32 | 2 | | | | 7 |
| | 选修 Elective | 0700991 | 生物物理学 Biophysics | 48 | 3 | | | | 6 |
| | 选修 Elective | 0714112 | 生物医学传感检测与仪器 Biomedical sensor,Testing and Instrumentation | 40 | 2.5 | | | | 6 |
| | 选修 Elective | 0714122 | 生物医学传感检测与仪器实验 Experiments in Biomedical sensor,Detection and Instrumentation | 24 | 0.8 | | 24 | | 6 |
| | 选修 Elective | 0703954 | 生物科学大实验 Experiments in Bioscience | 48 | 1.5 | | 48 | | 5 |
| | 选修 Elective | 0702761 | 解剖与生理学 Anatomy and Physiology | 64 | 4 | | | | 5 |
| | 选修 Elective | 0702772 | 解剖与生理学实验 Experiments in Anatomy and Physiology | 32 | 1 | | 32 | | 5 |
| | | | 可选修生命科学与技术学院其它专业课程 | | | | | | |
| 实践环节 Practical Training Items | 必修 Required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必修 Required | 1300536 | 认知实习 Perceive Practice | 1w | 0.5 | | | | 1 |
| | 必修 Required | 1306051 | 安全教育 Safe Education | 1w | 0.5 | | | | 1 |
| | 必修 Required | 1302331 | 金工实习 Industrial Practice | 2w | 1 | | | | 3 |
| | 必修 Required | 1304411 | 电工实习 Electrical Engineering Practice | 2w | 1 | | | | 4 |
| | 必修 Required | 1327694 | 生产实习 Engineering Internship | 4w | 2 | | | | 6 |
| | 必修 Required | 130044a | 科研训练 Research Training | 1w | 0.5 | | | | 6 |
| | 必修 Required | 130042a | 课程设计 Course Project | 2w | 1 | | | | 7 |
| | 必修 Required | 130004a | 毕业设计（论文） Undergraduate Thesis | 16w | 8 | | | | 8 |

# 生物科学专业本科培养计划
# （国家理科基础科学研究和教学人才培养基地班）
# Undergraduate Program for Specialty in Bioscience of National Bases for Cultivation of Scientific Talents

## 一、培养目标

### Ⅰ. Program Objective

本着“厚基础、强实践、重创新”的基本原则，培养德、智、体、美全面发展，具有扎实的数理化基础，掌握系统的生物科学专业及其重要交叉学科的基础理论、知识和技能，具有良好的科学素质和创新能力，能够从事生物物理学、生物化学及分子生物学和其它相关学科的基础研究与教学的高素质创新型人才。

With the principle of emphasizing on “Fundament, Practice, Innovation”, this program aims at establishing the special bioscience base by the development of disciplines, combination of the whole advantage in the fields of science, engineering and medicine at our university in order to meet the national strategic requirements for talents in fundamental research and education of biological science. During the training, students will develop morality, intelligence and physical attribute comprehensively; build solid foundation in mathematics, chemistry and physics; master theories, knowledge and techniques of biological science systematically; possess great scientific qualifications and creativity; and become high-qualified talents with creativity in fundamental research and education of biophysics, biochemistry & molecular biology as well as its related disciplines.

## 二、基本规格要求

### Ⅱ. Learning Outcomes

1. 具有宽广的自然科学基础和一定的人文社科及经济管理科学基础；

2. 具备健全的心理和健康的体魄，达到国家规定的大学生体育和军事训练合格标准；

3. 系统掌握扎实的数理化基本理论、知识和技能；

4. 系统掌握生物科学专业及其重要交叉学科的基本理论、知识和技能，熟悉生物科学尤其是生物物理学、生物化学及分子生物学的发展前沿动态，具备良好的科研素质和创新能力；

5. 具有较强的英语和计算机应用能力；

6. 具备良好的科学精神和较强的团队协作能力。

During this program, students are trained to:

1. Acquire solid basic knowledge in natural sciences and humanities, arts, economics and management sciences;

2. Reach the national standard of physical education and military training, being healthy psychologically and physically;

3. Learn theories, knowledge and skills of mathematics, physics and chemistry solidly;

4. Master theories, knowledge and skills of both biological science and its important related inter-disciplines systematically;

5. Develop strong abilities in the application of English and Computer Science;

6. Possess good scientific spirit and strong cooperation ability for teamwork.

## 三、培养特色

## Ⅲ. Program Highlights

以生物物理学、生物化学及分子生物学为特色，突出理医、理工相互渗透，培养适应国家生物科学基础研究与教学战略需求的高素质、创新型人才。

With its prominent feature in biophysics, biochemistry & molecular biology and the trait on combination of science, engineering and medicine, this program aims at bringing up high-qualified and innovative talents to meet the national strategic demand for fundamental research and education in biological science.

## 四、主干学科

## Ⅳ. Main Discipline

生物科学 Bioscience

## 五、学制与学位

## Ⅴ. Program Length and Degree

学制：四年

Duration：4 years

授予学位：理学学士

Degrees Conferred: Bachelor of Science

## 六、学时与学分

## VI. Credits Hours & Units

完成学业最低课内学分(含课程体系与集中性实践环节)要求：160.7 学分。 其中，学科基础课程、专业核心课程学分不允许用其他课程学分进行学分冲抵和替代。

Minimum Credits Required for Degree (Including Curriculum and Practical Training): 160.7 credits. Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：5 学分。

Minimum Credits of Extracurricular Activities and Practice: 5 credits.

1. 课程体系学时与学分

Course Credits Hours and Units

| 课程类别 | | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|---|
| 通识教育基础课程 | | 必修 | 1032/58.8 | 40.4 |
| | | 选修 | 160/10 | 6.9 |
| 学科大类基础课程 | | 必修 | 528/29.1 | 20.0 |
| 专业课程 | 专业核心课程 | 必修 | 568/27.8 | 19.1 |
| | 专业选修课程 | 选修 | 320/20 | 13.7 |
| 合计 | | | 2600/145.7 | 100 |

| Course Type | | Required/Elective | Hrs/Crs | Percentage（%） |
|---|---|---|---|---|
| General Education Core Curriculum | | Required | 1032/58.8 | 40.4 |
| | | Elective | 160/10 | 6.9 |
| Discipline-related Courses Basic Subdisciplinary | | Required | 528/29.1 | 20.0 |
| Major-specific Courses | Core | Required | 568/27.8 | 19.1 |
| | Elective | Elective | 320/20 | 13.7 |
| Total | | | 2600/145.7 | 100 |

2. 集中性实践教学环节周数与学分

Practicum Credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 安全教育 | 必修 | 1/0.5 | 3.3 |
| 军事训练 | 必修 | 2/1 | 6.7 |
| 认知实习 | 必修 | 1/0.5 | 3.3 |
| 生产实习 | 必修 | 3/1.5 | 1 |
| 金工实习 | 必修 | 2/1 | 6.7 |
| 科研训练 | 必修 | 2/1 | 6.7 |
| 生物学野外实习 | 必修 | 3/1.5 | 1 |
| 毕业设计（论文） | 必修 | 16/8 | 53.3 |
| 合计 | | 30/15 | 100 |

| Course Title | Required/Elective | Weeks/Credits | Percentage（%） |
|---|---|---|---|
| Safty education | Required | 1/0.5 | 3.3 |
| Military Training | Required | 2/1 | 6.7 |
| Perceive Practice | Required | 1/0.5 | 3.3 |
| Industrial Practice | Required | 3/1.5 | 1 |
| Engineering Internship | Required | 2/1 | 6.7 |
| Research Training | Required | 2/1 | 6.7 |
| Biological Field Practice | Required | 3/1.5 | 1 |
| Undergraduate Thesis | Required | 16/8 | 53.3 |
| Total | | 30/15 | 100 |

3. 课外学分

Extracurricular Credits

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 2 | 英语及计算机考试 | 全国大学英语六级考试 | 获六级证书者 | 2 |
| | | 托福考试 | 达 90 分以上者 | 3 |
| | | 雅思考试 | 达 6.5 分以上者 | 3 |
| | | GRE 考试 | 达 1350 分以上者 | 3 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |
| 3 | 竞赛 | 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 4 | 论文 | 在全国性刊物发表论文 | 每篇论文 | 2~3 |
| 5 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1~3 |
| 6 | 实验 | 视创新情况 | 每项 | 1~3 |

参加校体育运动会获第一名、第二名者与校级一等奖等同，获第三名至第五名者与校级二等奖等同，获第六至第八名者与校级三等奖等同。

| No. | Activities | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Community Engagement | Submitting a report and passing the oral defense | | 1 |
| | | Individuals awarded “Active Participant” / Teams awarded “Excellent Performance” by HUST or Hubei Youth League Committee | | 2 |
| 2 | Examinations in English and Computer | CET-6 | Certificate | 2 |
| | | TOEFL | 90 Points or Higher | 3 |
| | | IELTS | 6.5 Points or Higher | 3 |
| | | GRE | 1350 Points or Higher | 3 |
| | | National Computer Rank Examinations | Certificate Grade 2 or Higher | 2 |
| | | Qualifications for Computer and Software Technology Proficiency | Programmer | 2 |
| | | | Senior Programmer | 3 |
| | | | System Analyst | 4 |
| 3 | Competitions | University Level | First Prize | 3 |
| | | | Second Prize | 2 |
| | | | Third Prize | 1 |
| | | Provincial Level | First Prize | 4 |
| | | | Second Prize | 3 |
| | | | Third Prize | 2 |
| | | National Level | First Prize | 6 |
| | | | Second Prize | 4 |
| | | | Third Prize | 3 |
| 4 | Academic Papers | Published in national-level journals | Each Paper | 2~3 |
| 5 | Research Program | Contribution and research capability | Each Program | 1~3 |
| 6 | Experiments | Innovation capacity | Each Experiment | 1~3 |

PS:In HUST Sports Meeting, the first and the second prize, and the sixth prize to eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## VII. Main Courses

微积分 Calculus、概率论与数理统计 Probability and Statistics、数据库技术及应用 Technology and Application of Database、大学物理 College Physics、无机及分析化学 Inorganic and Analytic Chemistry、有机化学 Organic Chemistry、普通生物学 General Biology、微生物学 Microbiology、生物化学 Biochemistry、细胞生物学 Cellular Biology、遗传学 Genetics、分子生物学 Molecular Biology、神经生物学 Neurobiology、基因组学 Genomics、蛋白质组学 Proteomics、解剖与生理学 Anatomy and Physiology、免疫学 Immunology、发育生物学 Developmental Biology、生物统计学 Biostatistics、仪器分析 Instrument Analysis、生物物理学 Biophysics、现代生物医学概论 Introduction of Modern Biomedicine 等。

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Practicum Module（Experiments Included）

物理实验 Physical Experiment、无机及分析化学实验 Experiment in Inorganic and Analytic Chemistry、有机化学实验 Experiment in Organic Chemistry，普通生物学实验 Experiment in General Biology 、生物化学实验 Experiments in Biochemistry、细胞生物学实验 Experiments in Cellular Biology、分子生物学实验 Experiments in Molecular Biology、发育生物学实验 Experiments in Developmental Biology、遗传学实验 Experiments of Genetics、微生物学实验 Experiments of Microbiology、免疫学实验 Experiments in Immunology、解剖与生理学实验 Experiments in Anatomy and Physiology、生物物理学大实验 Comprehensive Experiments in Biophysics、生物化学与分子生

物学大实验 Comprehensive Experiments in Biochemistry. & Molecular Biology、生物科学大实验 Experiments in Bioscience、军事训练 Military Training、认知实习 Perceive Practice、生物学野外实习 Biological Field Practice、生产实习 Engineering Internship、金工实习 Industrial Practice、科研训练 Research Training、毕业设计（论文）Undergraduate Thesis 等。

## 九、教学进程计划表

## Ⅸ. Course Schedule

院（系）：生命科学与技术学院　　专业：生物科学（基地班）

School(Department):School of Life Science & Technology　　Specialty :Bioscience

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必　修 Required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必　修 Required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必　修 Required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必　修 Required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必　修 Required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概述 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必　修 Required | 0100741 | 形势与政策 Situation and Policy | 32 | 2 | 14 | | | 1-6 |
| | 必　修 Required | 0700011 | 微积分（一）（上） Calculus (Ⅰ) Part I | 88 | 5.5 | | | | 1 |
| | 必　修 Required | 0700012 | 微积分（一）（下） Calculus (Ⅰ) Part II | 88 | 5.5 | | | | 2 |
| | 必　修 Required | 0700054 | 线性代数 Linear Algebra | 40 | 2.5 | | | | 2 |
| | 必　修 Required | 0700063 | 概率论与数理统计（三） Probability and Statistics (Ⅲ) | 40 | 2.5 | | | | 3 |
| | 必　修 Required | 0827781 | 计算机与程序设计基础（C++） Fundamental of Computer Programming (C++) | 48 | 3 | | | 8 | 1 |
| | 必　修 Required | 0833174 | 数据库技术及应用 Technology and Application of Database | 32 | 2 | | | 8 | 4 |
| | 必　修 Required | 0508453 | 综合英语（一） Comprehensive English （I） | 56 | 3.5 | | | | 1 |
| | 必　修 Required | 0508463 | 综合英语（二） Comprehensive English （II） | 56 | 3.5 | | | | 2 |
| | 必　修 Required | 0400111 | 大学体育（一） Physical Education(Ⅰ) | 32 | 1 | | | | 1 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必修 Required | 0400121 | 大学体育（二） Physical Education (Ⅱ) | 32 | 1 | | | | 2 |
| | 必修 Required | 0400131 | 大学体育（三） Physical Education(Ⅲ) | 32 | 1 | | | | 3 |
| | 必修 Required | 0400141 | 大学体育（四） Physical Education(Ⅳ) | 32 | 1 | | | | 4 |
| | 必修 Required | 0700048 | 大学物理（一） Physics (Ⅰ) | 64 | 4 | | | | 2 |
| | 必修 Required | 0700049 | 大学物理（二） Physics (Ⅱ) | 64 | 4 | | | | 3 |
| | 必修 Required | 0706891 | 物理实验（一） Physics Experiments (Ⅰ) | 32 | 1 | | 32 | | 2 |
| | 必修 Required | 0706901 | 物理实验（二） Physics Experiments (Ⅱ) | 24 | 0.8 | | 24 | | 3 |
| | 必修 Required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 1 |
| | 必修 Required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | | | 人文社会科学公共选修课 Optional Courses in Humanities and Social Science | 160 | 10 | | | | 1-8 |
| 学科大类基础课程 Discipline-related General Courses | 必修 Required | 0704531 | 无机及分析化学(含实验) Inorganic and Analytic Chemistry ( Including Experiments) | 96 | 6 | | 32 | | 1 |
| | 必修 Required | 0707171 | 普通生物学(上) General Biology Part Ⅰ | 40 | 2.5 | | | | 1 |
| | 必修 Required | 0707181 | 普通生物学(下) General Biology Part Ⅱ | 32 | 2 | 4 | | | 2 |
| | 必修 Required | 0812813 | 普通生物学实验 Experiment in General Biology | 32 | 1 | | 32 | | 1 |
| | 必修 Required | 0704511 | 有机化学（含实验） Organic Chemistry (Including Experiments) | 96 | 6 | | 32 | | 2 |
| | 必修 Required | 0703081 | 生物化学 Biochemistry | 88 | 5.5 | | | | 3 |
| | 必修 Required | 0704132 | 生物化学实验（一） Experiments in Biochemistry I | 24 | 0.8 | | 24 | | 3 |
| | 必修 Required | 0704142 | 生物化学实验（二） Experiments in Biochemistry II | 24 | 0.8 | | 24 | | 4 |
| | 必修 Required | 0700893 | 细胞生物学 Cellular Biology | 56 | 3.5 | | | | 4 |
| | 必修 Required | 0702746 | 细胞生物学实验 Experiments in Cellular Biology | 32 | 1 | | 32 | | 4 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业核心课程 Major-specific Core Courses | 必修 Required | 0702891 | 生物科学专业概论 Introduction to Bioscience | 16 | 1 | | | | 1 |
| | 必修 Required | 0701653 | 微生物学 Microbiology | 48 | 3 | | | | 4 |
| | 必修 Required | 0701665 | 微生物学实验 Experiments in Microbiology | 32 | 1 | | 32 | | 4 |
| | 必修 Required | 0702761 | 解剖与生理学 Anatomy and Physiology | 64 | 4 | | | | 5 |
| | 必修 Required | 0702772 | 解剖与生理学实验 Experiments in Anatomy and Physiology | 32 | 1 | | 32 | | 5 |
| | 必修 Required | 0701021 | 分子生物学 Molecular Biology | 56 | 3.5 | | | | 5 |
| | 必修 Required | 0702752 | 分子生物学实验 Experiments in Molecular Biology | 24 | 0.8 | | 24 | | 5 |
| | 必修 Required | 0701053 | 遗传学 Genetics | 48 | 3 | | | | 5 |
| | 必修 Required | 0703103 | 遗传学实验 Experiments in Genetics | 32 | 1 | | 32 | | 5 |
| | 必修 Required | 0701242 | 发育生物学 Developmental Biology | 40 | 2.5 | | | | 6 |
| | 必修 Required | 0707272 | 发育生物学实验 Experiments in Developmental Biology | 32 | 1 | | 32 | | 6 |
| | 必修 Required | 0700991 | 生物物理学 Biophysics | 48 | 3 | | | | 6 |
| | 必修 Required | 0706133 | 生物物理学大实验 Comprehensive Experiments in Biophysics | 32 | 1 | | 32 | | 6 |
| | 必修 Required | 0703954 | 生物科学大实验 Experiments in Bioscience | 64 | 2 | | 64 | | 7 |
| 专业选修课程 Major-specific Electives | | | 专业选修课程(从以下课程选修至少 20 学分；理论课与其相应实验课须打包共选) | 320 | 20 | | | | |
| | 选修 Elective | 0703051 | 免疫学 Immunology | 32 | 2 | | | | 4 |
| | 选修 Elective | 0707261 | 免疫学实验 Experiments in Immunology | 24 | 0.8 | | 24 | | 4 |
| | 选修 Elective | 0701112 | 生物统计学 Biostatistics | 32 | 2 | | | | 5 |
| | 选修 Elective | 0702941 | 分子遗传学 Molecular Genetics | 32 | 2 | | | | 5 |
| | 选修 Elective | 0717011 | 生化与分子生物学前沿 Frontiers of Biochemistry and Molecular Biology | 16 | 1 | | | | 6 |
| | 选修 Elective | 0701031 | 神经生物学 Neurobiology | 32 | 2 | | | | 6 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业选修课程 Major-specific Electives | 选　修 Elective | 0702241 | 结构生物学 Structural Biology | 32 | 2 | | | | 6 |
| | 选　修 Elective | 0707281 | 结构生物学实验 Experiments in Structural Biology | 32 | 1 | | 16 | 16 | 6 |
| | 选　修 Elective | 0701262 | 基因组学 Genomics | 32 | 2 | | | | 6 |
| | 选　修 Elective | 0702912 | 蛋白质组学 Proteomics | 32 | 2 | | | | 6 |
| | 选　修 Elective | 0705062 | 代谢组学 Metabonomics | 16 | 1 | | | | 6 |
| | 选　修 Elective | 0706213 | 生化与分子生物学大实验 Comprehensive Exp. in Biochem. & Molecular Biology | 32 | 1 | | 32 | | 6 |
| | 选　修 Elective | 0700691 | 仪器分析 Instrumental Analysis | 32 | 2 | | | | 6 |
| | 选　修 Elective | 0707291 | 文献阅读与论文写作 Scientific English Reading and Writing | 16 | 1 | | | | 6 |
| | 选　修 Elective | 0706111 | 细胞工程原理 Principle of Cell Engineering | 32 | 2 | | | | 6 |
| | 选　修 Elective | 0707301 | 生物技术原理 Principle in Biotechnology | 32 | 2 | | | | 6 |
| | 选　修 Elective | 0701273 | 生物信息学 Bioinformatics | 56 | 3.5 | | | 16 | 6 |
| | 选　修 Elective | 0716991 | 现代生物医学概论 Introduction of Modern Biomedicine | 16 | 1 | | | | 6 |
| | 选　修 Elective | 0716852 | 模式生物学 Model Organism | 32 | 2 | | | | 7 |
| | 选　修 Elective | 0703384 | 药物分子设计 Molecular Design for Pharmaceutical | 32 | 2 | | | 16 | 7 |
| 实践环节 Practical Training Items | 必　修 Required | 1306051 | 安全教育 Safety Education | 1W | 0.5 | | | | 1 |
| | 必　修 Required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必　修 Required | 1300536 | 认知实习 Perceive Practice | 1w | 0.5 | | | | 1 |
| | 必　修 Required | 1302331 | 金工实习 Industrial Practice | 2w | 1 | | | | 3 |
| | 必　修 Required | 130044b | 科研训练 Research Training | 2w | 1 | | | | 4 |
| | 必　修 Required | 1327694 | 生产实习 Engineering Internship | 3w | 1.5 | | | | 6 |
| | 必　修 Required | 1304441 | 生物学野外实习 Biological Field Practice | 3w | 1.5 | | | | 2 |
| | 必　修 Required | 130004a | 毕业设计（论文） Undergraduate Thesis | 16w | 8 | | | | 8 |

# 生物科学与技术实验班本科培养计划

# Undergraduate Experimental Program of Basic Subject for Life Science and Technology Education

## 一、培养目标

## Ⅰ. Program Objectives

培养德、智、体全面发展，基础理论扎实、创新能力突出、实践能力强、综合素质高、能从事生命科学领域的基础研究及新技术与新方法的研究开发的高级人才。

This program aims to foster the high-level talents with solid basic theories, outstanding ability to innovate, strong practical skill and good personal qualities, who can undertake both basic research and development of new technologies and new methodologies in life sciences.

## 二、基本规格要求

## Ⅱ. Learning Outcomes

本专业学生应掌握扎实的数理化基础、系统的生命科学理论知识和生物技术实践技能，具有良好的科学素质和创新能力。

毕业生应获得以下几方面的知识和能力：

1. 扎实的数理化基础；
2. 生物科学与技术、生物信息学、药学以及计算机应用技术等基本理论和技能；
3. 较强的创新精神与创新能力；
4. 较强的英语能力；
5. 文献检索、资料查询、和撰写科学论文的能力；
6. 较好的人文社科知识和人文素质，较强的协调与组织能力。

By the time of graduation, students of this program are required to possess;

1. Solid ground in mathematics, physics and chemistry;
2. Systematical principles and technologies in biological science, bioinformatics, medicine and computer science;
3. High innovative and spirit capacity;
4. Strong abilities in the application of English language;
5. Abilities in literature search, data query, and scientific paper writing;
6. Better knowledge and quality in the humanities and social science; and strong coordination and organizational skills for teamwork.

## 三、培养特色

## Ⅲ. Program Highlights

重视厚基础、宽口径,强化实践能力,突出理工医交叉渗透，着眼全面提高学生的综合素质，培养具有创新能力的复合型人才。

With its prominent feature on cross-penetration of science-medicine and science-engineering and its traits on attaching importance to basic theories and stressing wide-bore training styles, this program focus on comprehensively improving the overall quality of students and aims at bringing up multiple-skilled creative talents.

## 四、主干学科

## Ⅳ. Main Disciplines

生物技术（Biotechnology）、生物科学（Bioscience）

## 五、学制与学位

## Ⅴ. Program Length and Degree

学制：四年

Duration：4 years

授予学位：理学学士

Degrees Conferred: Bachelor of Science

## 六、学时与学分

## VI. Credits Hours and Units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：170.3 学分。

Minimum curriculum credits (including courses and practicum): 170.3 credits.

其中，专业基础课程、专业核心课程学分不允许用其他课程学分进行学分冲抵和替代。

Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：5 学分。

Minimum Extracurricular Credits：5 credits.

1．课程体系学时与学分

Course Credits Hours and Units

| 课程模块 | | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|---|
| 通识教育课程 | | 必修 | 1032/58.8 | 38.6 |
| | | 选修 | 160/10 | 6.5 |
| 学科（大类）基础课程 | | 必修 | 952/50 | 32.9 |
| 专业课程 | 专业核心课程 | 必修 | 392/21.5 | 14.1 |
| | 专业选修课程 | 选修 | 192/12 | 7.9 |
| 集中性实践教学环节 | | 必修 | 2728/152.3 | 100 |

| Course Classified | | Course Nature | Hrs/Crs | Percentage (%) |
|---|---|---|---|---|
| Basic Courses in General Education | | Required | 1032/58.8 | 38.6 |
| | | Elective | 160/10 | 6.5 |
| Basic Courses in Discipline | | Required | 952/50 | 32.9 |
| Courses in Specialty | Common Core Courses | Required | 392/21.5 | 14.1 |
| | Specialty-Oriented Courses | Elective | 192/12 | 7.9 |
| Internship & Practical Training | | Required | 2728/152.3 | 100 |

2．集中性实践教学环节周数与学分

Practicum Credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 5.5 |
| 安全教育 | 必修 | 1/0.5 | 2.8 |
| 金工实习 | 必修 | 2/1 | 5.6 |
| 电工实习 | 必修 | 1/0.5 | 2.8 |
| 认知实习 | 必修 | 2/1 | 5.6 |
| 生物学野外实习 | 必修 | 3/1.5 | 8.3 |
| 生产实习 | 必修 | 3/1.5 | 8.3 |
| 科技创新训练 | 必修 | 6/3 | 16.7 |
| 毕业设计（论文） | 必修 | 16/8 | 44.4 |
| 合计 | | 36/18 | 100 |

| Course Title | Required /Elective | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 5.5 |
| Safety education | Required | 1/0.5 | 2.8 |
| Industrial Practice | Required | 2/1 | 5.6 |
| Electrical Engineering Practice | Required | 1/0.5 | 2.8 |
| Perceive Practice | Required | 2/1 | 5.6 |
| Biological Field practice | Required | 3/1.5 | 8.3 |
| Engineering Internship | Required | 3/1.5 | 8.3 |
| Scientific Innovative Training | Required | 6/3 | 16.7 |
| Undergraduate Thesis | Required | 16/8 | 44.4 |
| Total | | 36/18 | 100 |

3．课外学分

Extracurricular Credits

| 序号 | 名 称 | 要 求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 2 | 英语及计算机考试 | 全国大学英语六级考试 | 获六级证书者 | 2 |
| | | 托福考试 | 达 90 分以上者 | 3 |
| | | 雅思考试 | 达 6.5 分以上者 | 3 |
| | | GRE 考试 | 达 1350 分以上者 | 3 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |
| 3 | 竞赛 | 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 4 | 论文 | 在全国性刊物发表论文 | 每篇论文 | 2-3 |
| 5 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1-3 |
| 6 | 实验 | 视创新情况 | 每项 | 1-3 |

注：参加校体育运动会获第一名、第二名者与校级一等奖等同，获第三名至第五名者与校级二等奖等同，获第六至第八名者与校级三等奖等同。

| No. | Extracurricular Activities and Social Practice | Requirements | Extracurricular Credits |
|---|---|---|---|
| 1 | Activities of Social Practice | Submit report and pass oral defense | 1 |
| | | Entitled as Activist by the Communist Youth League of HUST or Hubei Province;<br>Membership of the group which is entitled as Excellent Social Practice Group by the Communist Youth League of HUST or Hubei Province | 2 |

continue

| No. | Extracurricular Activities and Social Practice | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 2 | Examinations in English and Computer | CET-6 | Win certificate of Band-6 or higher | 2 |
| | | TOEFL | 90 Points or Higher | 3 |
| | | IELTS | 6.5 Points or Higher | 3 |
| | | GRE | 1350 Points or Higher | 3 |
| | | National Computer Rank Examinations | Win certificate of Band-2 or higher | 2 |
| | | National Compute Software Qualification | Win certificate of programmer | 2 |
| | | | Win certificate of Advanced Programmer | 3 |
| | | | Win certificate of System Analyst | 4 |
| 3 | Competitions | University Level | Win first prize | 3 |
| | | | Win second prize | 2 |
| | | | Win third prize | 1 |
| | | Provincial Level | Win first prize | 4 |
| | | | Win second prize | 3 |
| | | | Win third prize | 2 |
| | | National Level | Win first prize | 6 |
| | | | Win second prize | 4 |
| | | | Win third prize | 3 |
| 4 | Thesis | Those whose thesis appears in national publications | Per piece | 2~3 |
| 5 | Scientific Research | Depending on both the time spent in and ability demonstrated in scientific research project | Each item | 1~3 |
| 6 | Experiments | Depending on innovative extent | Each item | 1~3 |

Note：In HUST Sports Meeting, the first and the second prize, and the sixth prize to eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## Ⅶ. Main Courses

普通生物学 General Biology、生物化学 Biochemistry、细胞生物学 Cellular Biology、遗传学 Genetics、微生物学 Microbiology、分子生物学 Molecular Biology、解剖与生理学 Anatomy and Physiology、基因工程原理 Principle of gene engineering、发酵工程 Fermentation Engineering、酶工程 Enzyme Engineering、合成生物学与细胞工厂 Synthetic biology and cell factory、代谢生理与代谢工程 Metabolic physiology and metabolic engineering、仪器分析 Instrumental Analysis 、生物统计学 Biostatistics、生物分离技术 Bioseparation Technology、生物信息学 Bioinformatics 等。

## 八、主要实践教学环节

## Ⅷ. Practicum Module (experiments included)

物理实验 Physical Experiment、化学实验 Experiment in Chemistry、有机化学实验 Experiment in Organic Chemistry，普通生物学实验 Experiment in General Biology 、生物化学实验 Experiments in Biochemistry、细胞生物学实验 Experiments in Cellular Biology、分子生物学实验 Experiments in Molecular Biology、遗传学实验 Experiments of Genetics、微生物学实验 Experiments in Microbiology、发酵工程实验 Experiments in Fermentation Engineering、解剖与生理学实验 Experiments in Anatomy and Physiology、生物技术大实验 Experiments of Biotechnology、军事训练 Military Training、认知

实习 Perceive Practice、生物学野外实习 Biological Field Practice、生产实习 Engineering Internship、科技创新训练/ Scientific Innovative Training、毕业设计 Undergraduate Thesis 等。

## 九、教学进程计划表

## Ⅸ. Course Schedule

院（系）：生命科学与技术学院　　专业：生物技术

School (Department)：School of Life Science & Technology　　Specialty：Biotechnology

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 basic courses in general education | 必修 Required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必修 Required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必修 Required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必修 Required | 0100733 | 马克思主义原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必修 Required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必修 Required | 0100741 | 形势与政策 Current Affairs and Policy | 32 | 2 | 14 | | | 1-6 |
| | 必修 Required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 7 |
| | 必修 Required | 0508453 | 综合英语（一） Comprehensive English I | 56 | 3.5 | | | | 1 |
| | 必修 Required | 0508463 | 综合英语（二） Comprehensive English II | 56 | 3.5 | | | | 2 |
| | 必修 Required | 0400111 | 大学体育（一） Physical Education(Ⅰ) | 32 | 1 | | | | 1 |
| | 必修 Required | 0400121 | 大学体育（二） Physical Education(Ⅱ) | 32 | 1 | | | | 2 |
| | 必修 Required | 0400131 | 大学体育（三） Physical Education(Ⅲ) | 32 | 1 | | | | 3 |
| | 必修 Required | 0400141 | 大学体育（四） Physical Education(Ⅳ) | 32 | 1 | | | | 4 |
| | 必修 Required | 0700011 | 微积分（一）（上） Calculus (Ⅰ) Part I | 88 | 5.5 | | | | 1 |
| | 必修 Required | 0700012 | 微积分（一）（下） Calculus (Ⅰ) Part II | 88 | 5.5 | | | | 2 |
| | 必修 Required | 070054 | 线性代数 Linear Algebra | 40 | 2.5 | | | | 2 |
| | 必修 Required | 0700063 | 概率论与数理统计(三) Probability and Statistics (Ⅲ) | 40 | 2.5 | | | | 3 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 basic courses in general education | 必修 Required | 0700048 | 大学物理（一） Physics (Ⅰ) | 64 | 4 | | | | 2 |
| | 必修 Required | 0700049 | 大学物理（二） Physics (Ⅱ) | 64 | 4 | | | | 3 |
| | 必修 Required | 0700041 | 物理实验(一) Physics Experiments (Ⅰ) | 32 | 1 | | 32 | | 2 |
| | 必修 Required | 0700042 | 物理实验(二) Physics Experiments (Ⅱ) | 24 | 0.8 | | 24 | | 3 |
| | 必修 Required | 0827781 | 计算机与程序设计基础（C++） Fundamental of computer Program (C++) | 48 | 3 | | | 8 | 1 |
| | 必修 Required | 0833174 | 数据库技术及应用 Technology and Application of Database | 32 | 2 | | | 8 | 2 |
| | 必修 Required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | | | 人文社会科学公共选修课 Electives in the Humanities and Social Science | 160 | 10 | | | | 1-8 |
| 学科大类基础课程 basic courses in general discipline | 必修 Required | 0707171 | 普通生物学(上) General Biology Part Ⅰ | 40 | 2.5 | | | | 1 |
| | 必修 Required | 0812811 | 普通生物学实验 Experiments in General Biology | 32 | 1 | | 32 | | 1 |
| | 必修 Required | 0707181 | 普通生物学(下) General Biology Part Ⅱ | 32 | 2 | 4 | | | 2 |
| | 必修 Required | 0702513 | 基础化学(二) Fundamental Chemistry（Ⅱ） | 64 | 4 | | | | 1 |
| | 必修 Required | 070065c | 基础化学实验(二) Experiments in Fundamental Chemistry (Ⅱ) | 24 | 0.8 | | | | 1 |
| | 必修 Required | 0700122 | 有机化学 Organic Chemistry | 64 | 4 | | | | 2 |
| | 必修 Required | 0703485 | 有机化学实验 Experiments in Organic Chemistry | 32 | 1 | | | | 2 |
| | 必修 Required | 0702725 | 物理化学 Physical Chemistry | 32 | 2 | | | | 3 |
| | 必修 Required | 0703497 | 物理化学实验 Experiments in Physical Chemistry | 32 | 1 | | | | 3 |
| | 必修 Required | 0701112 | 生物统计学 Biostatistics | 32 | 2 | | | | 5 |
| | 必修 Required | 0711171 | 生命科学前沿课程 Frontiers of Life Sciences | 16 | 1 | | | | 1 |
| | 必修 Required | 0703081 | 生物化学 Biochemistry | 88 | 5.5 | | | | 3 |
| | 必修 Required | 0704131 | 生物化学实验（一） Experiments in Chemistry (I) | 24 | 0.8 | | 24 | | 3 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 学科大类基础课程 basic courses in general discipline | 必修 Required | 0704141 | 生物化学实验（二） Experiments in chemistry(II) | 24 | 0.8 | | 24 | | 4 |
| | 必修 Required | 0701653 | 微生物学 Microbiology | 48 | 3 | | | | 4 |
| | 必修 Required | 0701665 | 微生物学实验 Experiments in Microbiology | 32 | 1 | | 32 | | 4 |
| | 必修 Required | 0700893 | 细胞生物学 Cellular Biology | 56 | 3.5 | | | | 4 |
| | 必修 Required | 0702745 | 细胞生物学实验 Experiments in Cellular Biology | 24 | 0.8 | | 24 | | 4 |
| | 必修 Required | 0701021 | 分子生物学 Molecular Biology | 56 | 3.5 | | | | 5 |
| | 必修 Required | 0702752 | 分子生物学实验 Experiments in Molecular Biology | 24 | 0.8 | | 32 | | 5 |
| | 必修 Required | 0701053 | 遗传学 Genetics | 48 | 3 | | | | 5 |
| | 必修 Required | 0703103 | 遗传学实验 Experiments in Genetics | 32 | 1 | | 32 | | 5 |
| | 必修 Required | 0702761 | 解剖与生理学 Anatomy and Physiology | 64 | 4 | | | | 5 |
| | 必修 Required | 0702772 | 解剖与生理学实验 Experiments in Anatomy and Physiology | 32 | 1 | | 32 | | 5 |
| 专业核心课程 core courses in specialty | 必修 Required | 0705031 | 基因工程原理 Principle of gene engineering | 32 | 2 | | | | 6 |
| | 必修 Required | 0701093 | 发酵工程 Fermentation Engineering | 32 | 2 | | | | 5 |
| | 必修 Required | 0707191 | 发酵工程实验 Experiments in Fermentation Engineering | 32 | 1 | | 32 | | 5 |
| | 必修 Required | 0700691 | 仪器分析 Instrumental Analysis | 32 | 2 | | | | 4 |
| | 必修 Required | 0701273 | 生物信息学 Bioinformatics | 56 | 3.5 | | | 16 | 4 |
| | 必修 Required | 0704731 | 生物信息数据挖掘 Bioinformation Data Mining | 48 | 3 | | | 16 | 6 |
| | 必修 Required | 0707741 | 合成生物学与细胞工厂 Synthetic Biology and Cell Factory | 32 | 2 | | | | 6 |
| | 必修 Required | 0704241 | 生物分离技术 Bioseparation Technology | 32 | 2 | | | | 7 |
| | 必修 Required | 0701182 | 酶工程 Enzyme Engineering | 32 | 2 | | | | 5 |
| | 必修 Required | 0701065 | 生物技术大实验 Experiments in Biotechnology | 64 | 2 | | 64 | | 6 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业方向课程 Major-specific Electives | | | 选修课程 | 192 | 12 | | | | |
| | 选修 Elective | 0707751 | 代谢生理与代谢工程 Metabolic Physiology and Metabolic Engineering | 32 | 2 | | | | 6 |
| | 选修 Elective | 0707221 | 生物产品制造工艺学 Biological Products Manufacturing Technology | 32 | 2 | | | | 6 |
| | 选修 Elective | 0701075 | 生物化工原理与设备 Principle & Equipments of Biochemical Industry | 40 | 2.5 | | | | 5 |
| | 选修 Elective | 0701161 | 天然产物化学 Chemistry of Natural Products | 32 | 2 | | | | 6 |
| | 选修 Elective | 0703384 | 药物分子设计 Molecular Design for Pharmaceutical | 32 | 2 | | | 16 | 7 |
| | 选修 Elective | 0717022 | 生物制药技术 Preparation Technique of Biomedicines | 48 | 3 | | | | 6 |
| | 选修 Elective | 0701161 | 天然产物化学 Chemistry of Natural Products | 32 | 2 | | | | 6 |
| | 选修 Elective | 0706111 | 细胞工程原理 Principle of Cell Engineering | 32 | 2 | | | | 6 |
| | 选修 Elective | 0707761 | 生物炼制与生物能源 Biorefinery and Bioenergy | 32 | 2 | | | | 7 |
| | 选修 Elective | 0701262 | 基因组学 Genomics | 32 | 2 | | | | 6 |
| | 选修 Elective | 0705061 | 代谢组学 Metabonomics | 16 | 1 | | | | 6 |
| | 选修 Elective | 0701912 | 蛋白质组学 Proteomics | 32 | 2 | | | | 6 |
| | 选修 Elective | 0703032 | 系统生物学 Systems Biology | 32 | 2 | | | | 5 |
| | 选修 Elective | 0704791 | 系统生物学实验 Experiments in Systems Biology | 32 | 1 | | 32 | | 6 |
| | 选修 Elective | 0703342 | 生物信息 Perl 编程 Bioinformatic Perl Programming | 16 | 1 | | | 8 | 4 |
| | 选修 Elective | 0703362 | 生物信息资源与实践 Bioinformatics Resources & Practice | 48 | 3 | | | 24 | 5 |
| | | | 可选修生命科学与技术学院其它专业课程 | | | | | | |
| | 必修 Required | 1300012 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必修 Required | 1306051 | 安全教育 Safety Education | 1w | 0.5 | | | | 1 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 实践环节 practical training items | 必修 Required | 1300531 | 认知实习 Perceive Practice | 2w | 1 | | | | 1 |
| | 必修 Required | 1300032 | 电工实习 Electrical Engineering Practice | 1w | 0.5 | | | | 4 |
| | 必修 Required | 1300074 | 金工实习 Industrial Practice | 2w | 1 | | | | 3 |
| | 必修 Required | 1304441 | 生物学野外实习 Biological Field practice | 3w | 1.5 | | | | 2 |
| | 必修 Required | 1328211 | 科技创新训练 Scientific Innovative Training | 6w | 3 | | | | 6 |
| | 必修 Required | 1300084 | 生产实习 Engineering Internship | 3w | 1.5 | | | | 6 |
| | 必修 Required | 1300066 | 毕业设计 Undergraduate Thesis | 16w | 8 | | | | 8 |

# 生医卓越计划实验班本科培养计划

# Undergraduate Experimental Program in Biomedical Engineering for Exemplary Engineer Education

## 一、培养目标

## Ⅰ. Program Objectives

培养德、智、体全面发展，基础理论扎实、创新能力突出、实践能力强、综合素质高、能从事生命科学领域的基础研究以及新技术与新方法的研究开发的高级人才。

This program aims to foster the high-level talents with solid basic theories, outstanding ability to innovate, strong practical skill and good personal qualities, who can undertake both basic research and development of new technologies and new methodologies in life sciences.

## 二、基本规格要求

## Ⅱ. Learning Outcomes

本专业学生应掌握扎实的数理化基础、系统的生物科学与技术有关专业的基础理论、知识和技能，具有良好的科学素质和创新能力。

毕业生应获得以下几方面的知识和能力：

1. 扎实的数理化基础；
2. 生物科学与技术、医学、药学、计算机应用技术等基本理论和技能；
3. 较强的创新精神与创新能力；
4. 较强的英语能力；
5. 文献检索、资料查询、和撰写科学论文的能力；
6. 较好的人文社科知识和人文素质，较强的协调与组织能力。

By the time of graduation, students of this program are required to possess;

1. Solid ground in mathematics, physics and chemistry;
2. Systematical principles and technologies in biological science, medicine, pharmacy and computer science;
3. High innovative and spirit capacity;
4. Strong abilities in the application of English language;
5. Abilities in literature search, data query, and scientific paper writing;
6. Better knowledge and quality in the humanities and social science; and strong coordination and organizational skills for teamwork.

## 三、培养特色

## Ⅲ. Program Highlights

理医、理工交叉渗透，重视基础理论，强调宽口径培养，着眼全面提高学生的综合素质，培养具有创新能力的复合型人才。

With its prominent feature on cross-penetration of science-medicine and science-engineering and its traits on attaching importance to basic theories and stressing wide-bore training styles, this program focus on comprehensively improving the overall quality of students and aims at bringing up multiple-skilled creative talents.

## 四、主干学科

## Ⅳ. Main Disciplines

生物医学工程 Biomedical Engineering

## 五、学制与学位

## Ⅴ. Program Length and Degree

学制：四年

Duration：4 years

授予学位：工学学士

Degrees Conferred: Bachelor of Engineering

## 六、学时与学分

## Ⅵ. Credits Hours and Units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：161.5 学分。

Minimum curriculum credits (including courses and practicum): 161.5 credits.

其中，专业基础课程、专业核心课程学分不允许用其他课程学分进行学分冲抵和替代。

Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：5 学分。

Minimum Extracurricular Credits: 5 credits.

1. 课程体系学时与学分

Course Credits Hours and Units

| 课程类别 | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|
| 通识教育基础课程 | 必修 | 1072/61.3 | 42.6 |
| | 选修 | 160/10 | 6.9 |
| 学科(大类)基础课程 | 必修 | 728/42.1 | 29.2 |
| 专业核心课程 | 必修 | 280/14.6 | 10.2 |
| 专业选修课程 | 选修 | 256/16 | 11.1 |
| 合计 | | 2496/144 | 100 |

| Course Type | Required /Elective | Hrs/Crs | Percentage (%) |
|---|---|---|---|
| Basic Courses in General Education | Required | 1072/61.3 | 42.6 |
| | Elective | 160/10 | 6.9 |
| Basic Courses in Discipline | Required | 728/42.1 | 29.2 |
| Basic Courses in Specialty | Required | 280/14.6 | 10.2 |
| Elective Courses in Specialty | Elective | 256/16 | 11.1 |
| Total | | 2496/144 | 100 |

2. 集中性实践教学环节周数与学分

Practicum Credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 5.71 |
| 金工实习 | 必修 | 2/1 | 5.71 |
| 电工实习 | 必修 | 2/1 | 5.71 |
| 认知实习 | 必修 | 2/1 | 5.71 |
| 安全教育 | 必修 | 1/0.5 | 2.86 |
| 生产实习 | 必修 | 4/2 | 11.43 |
| 学科交叉综合训练 | 必修 | 2/1 | 5.71 |
| 科技创新训练 | 必修 | 4/2 | 11.43 |
| 课程设计 | 必修 | 4/2 | 11.43 |

续表

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 毕业设计（论文） | 必修 | 12/6 | 34.29 |
| 合计 | | 35/17.5 | 100 |

| Course Title | Required /Elective | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 5.71 |
| Mechanical Engineering Training | Required | 2/1 | 5.71 |
| Electrical Engineering Practice | Required | 2/1 | 5.71 |
| Cognitive Practice | Required | 2/1 | 5.71 |
| Safety Education | Required | 1/0.5 | 2.86 |
| Engineering Internship (Social Practice) | Required | 4/2 | 11.43 |
| Interdisciplinary Comprehensive Training | Required | 2/1 | 5.71 |
| Scientific Innovative Training | Required | 4/2 | 11.43 |
| Course Project | Required | 4/2 | 11.43 |
| Undergraduate Thesis | Required | 12/6 | 34.29 |
| Total | | 35/17.5 | 100 |

3. 课外学分

Extracurricular Credits

| 序号 | 课外活动和 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 2 | 英语及计算机考试 | 全国大学英语六级考试 | 考试成绩达到学校要求者 | 2 |
| | | 托福考试 | 达 90 分以上者 | 3 |
| | | 雅思考试 | 达 6.5 分以上者 | 3 |
| | | GRE 考试 | 达 1350 分以上者 | 3 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |
| 3 | 竞赛 | 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 4 | 论文 | 在全国性刊物发表论文 | 每篇论文 | 2-3 |
| 5 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1-3 |
| 6 | 实验 | 视创新情况 | 每项 | 1-3 |

注：参加校体育运动会获第一名、第二名者与校级一等奖等同，获第三名至第五名者与校级二等奖等同，获第六至第八名者与校级三等奖等同。

| No. | Extracurricular Activities and Social Practice | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Activities of Social Practice | Submit report and pass oral defense | | 1 |
| | | Entitled as Activist by the Communist Youth League of HUST or Hubei Province; Membership of the group which is entitled as Excellent Social Practice Group by the Communist Youth League of HUST or Hubei Province | | 2 |
| | | CET-6 | Students passing Band-6 exam | 2 |
| 2 | Examinations in English and Computer | TOEFL | 90 Points or Higher | 3 |
| | | IELTS | 6.5 Points or Higher | 3 |
| | | GRE | 1350 Points or Higher | 3 |
| | | National Computer Rank Examinations | Winner of certificate of Band-2 or higher | 2 |
| | | National Computer Software Qualification | Winner of certificate of programmer | 2 |
| | | | Winner of certificate of Advanced Programmer | 3 |
| | | | Winner of certificate of System Analyst | 4 |
| 3 | Competitions | University Level | First prize winner | 3 |
| | | | Second prize winner | 2 |
| | | | Third prize winner | 1 |
| | | Provincial Level | First prize winner | 4 |
| | | | Second prize winner | 3 |
| | | | Third prize winner | 2 |
| | | National Level | First prize winner | 6 |
| | | | Second prize winner | 4 |
| | | | Third prize winner | 3 |
| 4 | Thesis | Those whose thesis appears in national publications | Each piece | 2-3 |
| 5 | Scientific Research | Depending on both the time spent in and ability demonstrated in scientific research project | Each item | 1-3 |
| 6 | Experiments | Depending on innovative extent | Each item | 1-3 |

PS：In HUST Sports Meeting, the first and the second prize, and the sixth prize to eighth prize are deemed respectively the first prize, the second prize and the third prize of university level

## 七、主要课程

## Ⅶ. Main Courses

电路理论 Circuit Theory、模拟电子技术 Analogue Electronics、数字电路与逻辑设计 Digital Circuit and Logic Design 应用光子学基础 Fundamental of Applied Photonics、微机原理与接口 Principle of Microcomputer and Interface、生物医学传感检测与仪器 Biomedical Sensing, Testing and Instrumentation、生物医学数字信号处理 Biomedical Digital Signal Processing、医学影像系统原理 Medical Imaging System Principle、医学图像处理 Medical Image Processing、生物材料学

Biomaterials、微机式医学仪器设计 Design of Microcomputer Based Medical Instrumentation Experiment、细胞生物学 Cellular Biology、生物化学与分子生物学 Biochemistry and Molecular Biology、解剖与生理学 Anatomy and Physiology 等。

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Practicum Module (experiments included)

物理实验 Physical Experiment、电路测试基础实验 Experiments in Circuit Measurement、电子测试与实验 Experiments in Electronics、生物医学传感检测与仪器实验 Experiments in Biomedical Sensing, Detection and Instrumentation 生物医学数字信号处理实验 Experiments in Biomedical Digital Signal Processing、解剖与生理学实验 Experiments in Anatomy and Physiology、生物化学与分子生物学实验 Experiments in Biochemistry and Molecular Biology、认知实习 Perceive Practice、金工实习 Industrial Practice、电工实习 Electrical Engineering Practice、生产实习 Engineering Internship、学科交叉综合训练 Interdisciplinary Comprehensive Training、科技创新训练 Scientific Innovative Training、课程设计 Course Project、毕业设计 Undergraduate Thesis。

## 九、企业实习

## Ⅸ. Enterprise practice

按照卓越工程师培养计划要求，本专业卓越班培养采用“3+1”模式，即入学后前 3 年在学校完成理论、体育、实验等课程的学习，第四学年在企业和学校进行实习。企业实习是锻炼和培养学生能力，尤其是实际动手能力的重要环节，其中在企业实习的实际时间一般不少于半年。为了更好地完成对于学生能力的培养，学校将在实习企业制定具体的实习方案，明确企业导师，并建立有效的考核机制。企业实习不合格者，不能取得卓越工程师教育培养计划实验班毕业证书。

According to the requirement of Undergraduate Experimental Program for Exemplary Engineer Education, the student in the class will take the “3+1” mode, i.e., the first 3 years in the university have to finish main courses including theoretical courses, physical education as well as the experiment courses while the 4th year will do the practice in the enterprises or research institutions. Enterprise practice is critical for training the ability of student, specially for the problem solving ability. The time in enterprise is usually not less than half year. In order to better perform the training of the ability, the detail training program and evaluation mechanism will be set up in the enterprise, and the supervisor in the enterprise is assigned for each student. The student who is failed in the enterprise practice will not be awarded the certificate of Undergraduate Experimental Program for Exemplary Engineer Education.

## 十、教学进程计划表

## Ⅹ. Course Schedule

院（系）：生命科学与技术学院　　专业：生物医学工程（卓越实验班）

School(Department): School of Life Science & Technology　　Specialty: Biomedical Engineering

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育课程 General Courses | 必　修 Required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必　修 Required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必　修 Required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育课程 General Courses | 必 修 Required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必 修 Required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必 修 Required | 0100741 | 形势与政策 Situation and Policy | 32 | 2 | 14 | | | 1-6 |
| | 必 修 Required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 1 |
| | 必 修 Required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | 必 修 Required | 0700011 | 微积分（一）（上） Calculus（Ⅰ）Part I | 88 | 5.5 | | | | 1 |
| | 必 修 Required | 0700012 | 微积分（一）（下） Calculus（Ⅰ）Part II | 88 | 5.5 | | | | 2 |
| | 必 修 Required | 0700054 | 线性代数 Linear Algebra | 40 | 2.5 | | | | 2 |
| | 必 修 Required | 0700071 | 复变函数与积分变换 Complex Function | 40 | 2.5 | | | | 3 |
| | 必 修 Required | 0705941 | 概率论与数理统计 Probability and Statistics | 40 | 2.5 | | | | 3 |
| | 必 修 Required | 0508454 | 综合英语(一) Compressive English（Ⅰ） | 32 | 2 | | | | 1 |
| | 必 修 Required | 0508464 | 综合英语(二) Compressive English（Ⅱ） | 32 | 2 | | | | 2 |
| | 必 修 Required | 0508472 | 综合英语(三) Compressive English（Ⅲ） | 16 | 1 | | | | 3 |
| | 必 修 Required | 0508482 | 综合英语(四) Compressive English（Ⅳ） | 16 | 1 | | | | 4 |
| | 必修 Required | 0400111 | 大学体育（一） Physical Education(Ⅰ) | 32 | 1 | | | | 1 |
| | 必修 Required | 0400121 | 大学体育（二） Physical Education(Ⅱ) | 32 | 1 | | | | 2 |
| | 必 修 Required | 0400131 | 大学体育（三） Physical Education(Ⅲ) | 32 | 1 | | | | 3 |
| | 必修 Required | 0400141 | 大学体育（四） Physical Education(Ⅳ) | 32 | 1 | | | | 4 |
| | 必 修 Required | 0700048 | 大学物理(一) Physics (I) | 64 | 4 | | | | 2 |
| | 必 修 Required | 0700049 | 大学物理(二) Physics (II) | 64 | 4 | | | | 3 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育课程 General Courses | 必 修 Required | 0706891 | 物理实验(一) Physics Experiment (Ⅰ) | 32 | 1 | | 32 | | 2 |
| | 必 修 Required | 0706901 | 物理实验(二) Physics Experiment (II) | 24 | 0.8 | | 24 | | 3 |
| | 必 修 Required | 0800033 | 软件技术基础 Software Programming Technology | 64 | 4 | | | | 1 |
| | 必 修 Required | 0701732 | 科学思维与研究方法 Methods Scientific Thought and Research | 16 | 1 | | | | 1 |
| | 必 修 Required | 0833031 | 工程导论 Introduction of Engineering | 16 | 1 | | | | 2 |
| | | | 人文社会科学公共选修课 Electives in the Humanities and Social Science | 160 | 10 | | | | 1-8 |
| 学科（大类）基础课程 Basic Courses in Discipline | 必 修 Required | 0801665 | 工程制图（一） Engineering Graphics (Ⅰ) | 40 | 2.5 | | | | 1 |
| | 必 修 Required | 0700894 | 细胞生物学 Cell Biology | 48 | 3 | | | | 4 |
| | 必 修 Required | 0714101 | 基础化学 Basic Chemistry | 32 | 2 | | | | 1 |
| | 必 修 Required | 0704511 | 有机化学（含实验） Organic Chemistry (Including Experiments) | 96 | 6 | | 32 | | 2 |
| | 必 修 Required | 0800114 | 电路理论（四） Circuit Theory (Ⅳ) | 72 | 4.5 | | | | 3 |
| | 必 修 Required | 0811462 | 电路测试基础实验 Experiments in Circuit Measurement | 32 | 1 | | 32 | | 3 |
| | 必 修 Required | 0800124 | 模拟电子技术(二) Analogue Electronics (II) | 56 | 3.5 | | | | 3 |
| | 必 修 Required | 0800152 | 信号与线性系统 Signals and Linear System | 64 | 4 | | | 8 | 4 |
| | 必 修 Required | 0800775 | 数字电路与逻辑设计 Digital Circuit and Logic Design | 56 | 3.5 | | | | 4 |
| | 必 修 Required | 1002761 | 生物化学与分子生物学（一） Biochemistry and Molecular Biology(Ⅰ) | 56 | 3.5 | | | | 3 |
| | 必 修 Required | 1002771 | 生物化学与分子生物学（二） Biochemistry and Molecular Biology(Ⅱ) | 32 | 2 | | | | 4 |
| | 必 修 Required | 1002782 | 生物化学与分子生物学实验(一) Experiments in Biochemistry and Molecular Biology I | 24 | 0.8 | | 24 | | 3 |
| | 必 修 Required | 1002792 | 生物化学与分子生物学实验（二） Experiments in Biochemistry and Molecular Biology II | 24 | 0.8 | | 24 | | 4 |
| | 必 修 Required | 0702761 | 解剖与生理学 Anatomy and Physiology | 64 | 4 | | | | 5 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必 修 Required | 0702772 | 解剖与生理学实验 Experiments in Anatomy and Physiology | 32 | 1 | | 32 | | 5 |
| 专业核心课程 Core Courses in Specialty | 必 修 Required | 0811221 | 生物医学工程前沿 Frontiers of Biomedical Engineering | 16 | 1 | | | | 1 |
| | 必 修 Required | 0802405 | 电子测试与实验（一） Experiments in Electronics（Ⅰ） | 56 | 1.8 | | 56 | | 5 |
| | 必 修 Required | 0811031 | 微机原理与接口 Principle of Microcomputer and Interface | 48 | 3 | | 16 | | 5 |
| | 必 修 Required | 0714112 | 生物医学传感检测与仪器 Biomedical Sensor, testing and Instrumentation | 40 | 2.5 | | | | 6 |
| | 必 修 Required | 0714122 | 生物医学传感检测与仪器实验 Experiments in Biomedical Sensing, Detection and Instrumentation | 24 | 0.8 | | 24 | | 6 |
| | 必 修 Required | 0716873 | 生物医学数字信号处理 Biomedical Digital Signal Processing | 48 | 3 | | | | 5 |
| | 必 修 Required | 0716883 | 生物医学数字信号处理实验 Experiments in Biomedical Digital Signal Processing | 16 | 0.5 | | 16 | | 5 |
| | 必 修 Required | 0717081 | 医疗器械设计与制造业界课程 Enterprise Courses for Medical Device design and manufacturing | 32 | 2 | | | | 3 |
| 专业选修课程 Elective Courses in Specialty | | | 专业方向课程 Major-specific Electives | 256 | 16 | | | | |
| | 选 修 Elective | 0700972 | 医学图像处理 Medical Image Processing | 32 | 2 | | | | 6 |
| | 选 修 Elective | 0700932 | 医学影像系统原理 Principles of Medical Imaging Systems | 32 | 2 | | | | 6 |
| | 选 修 Elective | 0714252 | 医学图像处理实验 Medical Image Processing Experiments | 24 | 0.8 | | 24 | | 6 |
| | 选 修 Elective | 0800822 | 微机式医学仪器设计 Design of microcomputer - Based Medical Instrumentation | 40 | 2.5 | | | | 6 |
| | 选 修 Elective | 0811182 | 微机式医学仪器设计实验 Design of Microcomputer Based Medical Instrumentation Experiments | 16 | 0.5 | | 16 | | 6 |
| | 选 修 Elective | 0801561 | 新材料概论 Introduction to Advanced Materials | 32 | 2 | | | | 5 |
| | 选 修 Elective | 0700952 | 生物医学光子学 Biomedical Photonics | 32 | 2 | | | | 5 |
| | 选 修 Elective | 0706003 | 生物医学光子学实验 Experimental of Biomedical Photons | 16 | 0.5 | | 16 | | 5 |
| | 选 修 Elective | 0827971 | 超声概论 Introduction to ultrasound | 32 | 2 | | | | 6 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业选修课程 Elective Courses in Specialty | 选 修 Elective | 0705991 | PET 概论 Fundamentals of PET | 32 | 2 | | | | 6 |
| | 选 修 Elective | 0811261 | 组织工程导论 Introduction to Tissue Engineering | 32 | 2 | | | | 6 |
| | 选 修 Elective | 0816472 | 生物材料学 Biomaterials | 48 | 3 | | | | 5 |
| | 选 修 Elective | 0704691 | 纳米生物医学分析技术 Nano-biomedical Analytical Technology | 32 | 2 | | | | 5 |
| | 选 修 Elective | 0704663 | 生物材料与组织工程实验 Experiments for Biomaterials and Tissue Engineering | 24 | 0.8 | | 24 | | 6 |
| | 选 修 Elective | 0706181 | 生物材料相容性评价 Compatibility Evaluation of Biomaterials | 16 | 1 | | | | 6 |
| | 选 修 Elective | 0704671 | 人工器官概论 Introduction to Artificial Organs | 16 | 1 | | | | 6 |
| | 选 修 Elective | 0700691 | 仪器分析 Instruments Analysis | 32 | 2 | | | | 6 |
| | 选 修 Elective | 0701001 | 医学统计学 Medical Statistics | 16 | 1 | | | | 5 |
| | | | 可选修生命科学与技术学院其它专业课程 | | | | | | |
| 跨专业选修课程 Elective Courses in Cross-specialty | | | 跨专业选修课程（须选修非本专业 3 门或 3 门以上课程且学分不少于 7 学分）请各专业在以下提供 3 门课程 Elective courses in Cross-specialty | | | | | | |
| | 选 修 Elective | 0833521 | 机械原理（三） Theory of Machines and Mechanisms (III) | 56 | 3.5 | | 6 | | 4 |
| | 选 修 Elective | 0821321 | 机械设计(三) Machine Design (III) | 56 | 3.5 | | 6 | | 5 |
| | 选 修 Elective | 0800363 | 机械制造技术基础 Fundamentals of Mechanical Manufacturing Technology | 40 | 2.5 | | 4 | | 4 |
| | 选修 Elective | 0828871 | 工程化学与土木工程材料 Engineering Chemistry & Civil Engineering Materials | 64 | 4 | | 12 | | 4 |
| | 选修 Elective | 0803972 | 房屋建筑学 Building Construction | 32 | 2 | | | | 5 |
| | 选修 Elective | 0805353 | 地基处理技术 Ground Improvement Techniques | 24 | 1.5 | | | | 6 |
| | 选修 Elective | 0804914 | 工程光学 Engineering Optics | 48 | 3 | | | | 4 |
| | 选修 Elective | 0804592 | 光电探测与信号处理 Optoelectronic Detect & Signal Processing | 48 | 3 | | | | 5 |
| | 选修 Elective | 0804161 | 光纤通信技术 Optical Fiber Communication Technology | 48 | 3 | | | | 6 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 集中性实践环节 Practical Training Items | 必 修 Required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必 修 Required | 1300534 | 认知实习 Perceive Practice | 2w | 1 | | | | 1 |
| | 必 修 Required | 1302333 | 金工实习 Industrial Practice | 2w | 1 | | | | 3 |
| | 必 修 Required | 1306051 | 安全教育 Safety Education | 1w | 0.5 | | | | 1 |
| | 必 修 Required | 1304411 | 电工实习 Electrical Engineering Practice | 2w | 1 | | | | 4 |
| | 必 修 Required | 1328221 | 学科交叉综合训练 Comprehensive Training for Interdisciplinary | 2w | 1 | | | | 2 |
| | 必 修 Required | 1327694 | 生产实习 Engineering Internship | 4w | 2 | | | | 6 |
| | 必 修 Required | 1328231 | 科技创新训练 Scientific Innovative Training | 4w | 2 | | | | 5 |
| | 必 修 Required | 130042b | 课程设计 Course Project | 4w | 2 | | | | 7 |
| | 必 修 Required | 130004g | 毕业设计（论文） Undergraduate Thesis | 12w | 6 | | | | 8 |

# 生物科学基础学科拔尖人才本科培养计划
# （贝时璋菁英班）
# Undergraduate Program for Specialty in Bioscience of National Bases for Cultivation of Scientific Talents

## 一、培养目标

### Ⅰ. Program Objective

培养具有远大志向和宽广的国际视野，优秀的科学素质和良好的沟通表达能力，扎实的理论基础和突出的科研实践能力，坚韧的探索毅力、高尚的道德品质和强烈的社会责任感，有望在将来成为世界生物科学领域领军人物的拔尖人才。

With the principle of emphasizing on “Fundament, Practice, Innovation”, this program aims at establishing the special bioscience base by the development of disciplines, combination of the whole advantage in the fields of science, engineering and medicine at our university in order to meet the national strategic requirements for talents in fundamental research and education of biological science. During the training, students will develop morality, intelligence and physical attribute comprehensively; build solid foundation in mathematics, chemistry and physics; master theories, knowledge and techniques of biological science systematically; possess great scientific qualifications and creativity; and become high-qualified talents with creativity in fundamental research and education of biophysics, biochemistry & molecular biology as well as its related disciplines.

## 二、基本规格要求

### Ⅱ. Learning Outcomes

1. 具有宽厚的自然科学基础和理工医交叉的宽广知识背景；
2. 具有国际视野和宏思维能力；
3. 具有出色的专业英语表达沟通能力和计算机及网络应用能力；
4. 系统掌握生物学科专业核心课程的基本理论、知识和技能；
5. 熟悉生物学科领域前沿动态，具备不断储备专业领域新知的自学能力；
6. 具备优秀的科学精神、科研素质、创新思维和实践能力；
7. 具有强烈的社会责任感和持之以恒的学习和探索精神；
8. 具有深厚的人文素养、健全的心理和强健的体魄。

During this program, students are trained to:

1. Acquire solid basic knowledge in natural sciences and humanities, arts, economics and management sciences;
2. Reach the national standard of physical education and military training, being healthy psychologically and physically;
3. Learn theories, knowledge and skills of mathematics, physics and chemistry solidly;
4. Master theories, knowledge and skills of both biological science and its important related inter-disciplines systematically;
5. Develop strong abilities in the application of English and Computer Science;
6. Possess good scientific spirit and strong cooperation ability for teamwork.

## 三、培养特色

## Ⅲ. Program Highlights

培养具有生物化学、分子生物学、细胞生物学、遗传学等生物学科前沿的厚实基础，理工医交叉的宽广知识背景，敏锐的思维和实践创新能力。实行华中科技大学生命科学与技术学院与中国科学院生物物理研究所科教协同培养模式，并与本硕博 8 年贯通培养模式相衔接。

With its prominent feature in biophysics, biochemistry & molecular biology and the trait on combination of science, engineering and medicine, this program aims at bringing up high-qualified and innovative talents to meet the national strategic demand for fundamental research and education in biological science.

## 四、主干学科

## Ⅳ. Main Discipline

生物科学 Bioscience

## 五、学制与学位

## Ⅴ. Program Length and Degree

学制：四年

Duration：4 years

授予学位：理学学士

Degrees Conferred: Bachelor of Science

## 六、学时与学分

## VI. Credits Hours & Units

完成学业最低课内学分(含课程体系与集中性实践环节)要求：155.7 学分。 其中，学科基础课程、专业核心课程学分不允许用其他课程学分进行学分冲抵和替代。

Minimum Credits Required for Degree (Including Curriculum and Practical Training): 155.7 credits. Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：5 学分。

Minimum Credits of Extracurricular Activities and Practice: 5 credits.

1. 课程体系学时与学分

Course Credits Hours and Units

| 课程类别 | | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|---|
| 通识教育基础课程 | | 必修 | 1032/58.8 | 41.9 |
| | | 选修 | 160/10 | 7.1 |
| 学科大类基础课程 | | 必修 | 440/25.1 | 17.9 |
| 专业课程 | 专业核心课程 | 必修 | 544/26.3 | 18.8 |
| | 专业选修课程 | 选修 | 320/20 | 14.3 |
| 合计 | | | 2496/140.2 | 100 |

| Course Type | | Required/Elective | Hrs/Crs | Percentage(%) |
|---|---|---|---|---|
| General Education Core Curriculum | | Required | 1032/58.8 | 41.9 |
| | | Elective | 160/10 | 7.1 |
| Discipline-related Courses Basic Subdisciplinary | | Required | 440/25.1 | 17.9 |
| Major-specific Courses | Core | Required | 544/26.3 | 18.8 |
| | Elective | Elective | 320/20 | 14.3 |
| Total | | | 2496/140.2 | 100 |

2. 集中性实践教学环节周数与学分

Practicum Credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 安全教育 | 必修 | 1/0.5 | 3.2 |
| 军事训练 | 必修 | 2/1 | 6.5 |
| 认知实习 | 必修 | 1/0.5 | 3.2 |
| 海外生物科学交流学习 | 必修 | 4/2 | 13 |
| 金工实习 | 必修 | 2/1 | 6.5 |
| 科研训练 | 必修 | 2/1 | 6.5 |
| 生物学野外实习 | 必修 | 3/1.5 | 9.7 |
| 毕业设计（论文） | 必修 | 16/8 | 51.6 |
| 合计 | | 31/15.5 | 100 |

| Course Title | Required/Elective | Weeks/Credits | Percentage（%） |
|---|---|---|---|
| Safety education | Required | 1/0.5 | 3.2 |
| Military Training | Required | 2/1 | 6.5 |
| Perceive Practice | Required | 1/0.5 | 3.2 |
| Oversea exchange student program | Required | 4/2 | 13 |
| Engineering Internship | Required | 2/1 | 6.5 |
| Research Training | Required | 2/1 | 6.5 |
| Biological Field Practice | Required | 3/1.5 | 9.7 |
| Undergraduate Thesis | Required | 16/8 | 51.6 |
| Total | | 31/15.5 | 100 |

3. 课外学分

Extracurricular Credits

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 2 | 英语及计算机考试 | 全国大学英语六级考试 | 获六级证书者 | 2 |
| | | 托福考试 | 达 90 分以上者 | 3 |
| | | 雅思考试 | 达 6.5 分以上者 | 3 |
| | | GRE 考试 | 达 1350 分以上者 | 3 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |
| 3 | 竞赛 | 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 4 | 论文 | 在全国性刊物发表论文 | 每篇论文 | 2~3 |
| 5 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1~3 |
| 6 | 实验 | 视创新情况 | 每项 | 1~3 |

参加校体育运动会获第一名、第二名者与校级一等奖等同，获第三名至第五名者与校级二等奖等同，获第六至第八名者与校级三等奖等同。

| No. | Activities | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Community Engagement | Submitting a report and passing the oral defense | | 1 |
| | | Individuals awarded “Active Participant” / Teams awarded “Excellent Performance” by HUST or Hubei Youth League Committee | | 2 |
| 2 | Examinations in English and Computer | CET-6 | Certificate | 2 |
| | | TOEFL | 90 Points or Higher | 3 |
| | | IELTS | 6.5 Points or Higher | 3 |
| | | GRE | 1350 Points or Higher | 3 |
| | | National Computer Rank Examinations | Certificate Grade 2 or Higher | 2 |
| | | Qualifications for Computer and Software Technology Proficiency | Programmer | 2 |
| | | | Senior Programmer | 3 |
| | | | System Analyst | 4 |
| 3 | Competitions | University Level | First Prize | 3 |
| | | | Second Prize | 2 |
| | | | Third Prize | 1 |
| | | Provincial Level | First Prize | 4 |
| | | | Second Prize | 3 |
| | | | Third Prize | 2 |
| | | National Level | First Prize | 6 |
| | | | Second Prize | 4 |
| | | | Third Prize | 3 |
| 4 | Academic Papers | Published in national-level journals | Each Paper | 2~3 |
| 5 | Research Program | Contribution and research capability | Each Program | 1~3 |
| 6 | Experiments | Innovation capacity | Each Experiment | 1~3 |

PS:In HUST Sports Meeting, the first and the second prize, and the sixth prize to eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## VII. Main Courses

微积分 Calculus、概率论与数理统计 Probability and Statistics、数据库技术及应用 Technology and Application of Database、大学物理 College Physics、无机及分析化学 Inorganic and Analytic Chemistry、有机化学 Organic Chemistry、普通生物学 General Biology、微生物学 Microbiology、生物化学 Biochemistry、遗传学 Genetics、分子与细胞生物学 Molecular and cell Biology、神经生物学 Neurobiology、生理学 Physiology、免疫学 Immunology、膜生物学 membrane biology、发育生物学 Developmental Biology、生物统计学 Biostatistics、生物物理学概论 Biophysics、感染与免疫前沿进展 Progress in frontier of Infection and Immunity、生物成像原理与技术 principle and technology of biological imaging 等。

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Practicum Module（Experiments Included）

物理实验 Physical Experiment、无机及分析化学实验 Experiment in Inorganic and Analytic Chemistry、有机化学实验 Experiment in Organic Chemistry，普通生物学实验 Experiment in General Biology 、生物化学实验 Experiments in Biochemistry、分子与细胞生物学实验 Experiments in Molecular and cell Biology、发育生物学实验 Experiments in Developmental Biology、遗传学实验 Experiments of Genetics、微生物学实验 Experiments of Microbiology、免疫学实验 Experiments in Immunology、生物物理技术及实验、神经生物学及实验 Neurobiology and Experiment、生物科学大实验、Experiments in Bioscience、军事训练 Military Training、认知实习 Perceive Practice、生

物学野外实习 Biological Field Practice、海外学生交流计划、金工实习 Industrial Practice、科研训练 Research Training、毕业设计（论文）Undergraduate Thesis 等。

## 九、教学进程计划表

## Ⅸ. Course Schedule

院（系）：生命科学与技术学院　　专业：生物科学

School(Department):School of Life Science & Technology　　Specialty :Bioscience

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必　修 Required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必　修 Required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必　修 Required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必　修 Required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必　修 Required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概述 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必　修 Required | 0100741 | 形势与政策 Situation and Policy | 32 | 2 | 14 | | | 1-6 |
| | 必　修 Required | 0700011 | 微积分（一）（上） Calculus (Ⅰ) Part I | 88 | 5.5 | | | | 1 |
| | 必　修 Required | 0700012 | 微积分（一）（下） Calculus (Ⅰ) Part II | 88 | 5.5 | | | | 2 |
| | 必　修 Required | 0700054 | 线性代数 Linear Algebra | 40 | 2.5 | | | | 2 |
| | 必　修 Required | 0700063 | 概率论与数理统计（三） Probability and Statistics (ⅢⅠ) | 40 | 2.5 | | | | 3 |
| | 必　修 Required | 0827781 | C++面向对象程序设计与实践 Advanced Programming Language (C++) | 48 | 3 | | | 8 | 1 |
| | 必　修 Required | 0833174 | 数据库技术及应用 Technology and Application of Database | 32 | 2 | | | 8 | 4 |
| | 必　修 Required | 0508453 | 综合英语（一） Comprehensive English （I） | 56 | 3.5 | | | | 1 |
| | 必　修 Required | 0508463 | 综合英语（二） Comprehensive English （II） | 56 | 3.5 | | | | 2 |
| | 必　修 Required | 0400111 | 大学体育（一） Physical Education(Ⅰ) | 32 | 1 | | | | 1 |
| | 必　修 Required | 0400121 | 大学体育（二） Physical Education (ⅡⅠ) | 32 | 1 | | | | 2 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必修 Required | 0400131 | 大学体育（三） Physical Education(Ⅲ) | 32 | 1 | | | | 3 |
| | 必修 Required | 0400141 | 大学体育（四） Physical Education(Ⅳ) | 32 | 1 | | | | 4 |
| | 必修 Required | 0700048 | 大学物理（一） Physics（Ⅰ） | 64 | 4 | | | | 2 |
| | 必修 Required | 0700049 | 大学物理（二） Physics（Ⅱ） | 64 | 4 | | | | 3 |
| | 必修 Required | 0706891 | 物理实验（一） Physics Experiments（Ⅰ） | 32 | 1 | | 32 | | 2 |
| | 必修 Required | 0706901 | 物理实验（二） Physics Experiments（Ⅱ） | 24 | 0.8 | | 24 | | 3 |
| | 必修 Required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 1 |
| | 必修 Required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | | | 人文社会科学公共选修课 Optional Courses in Humanities and Social Science | 160 | 10 | | | | 1-4 |
| 学科大类基础课程 Discipline-related General Courses | 必修 Required | 0704531 | 无机及分析化学(含实验) Inorganic and Analytic Chemistry ( Including Experiments) | 96 | 6 | | 32 | | 1 |
| | 必修 Required | 0707171 | 普通生物学(上) General Biology Part Ⅰ | 40 | 2.5 | | | | 1 |
| | 必修 Required | 0707181 | 普通生物学(下) General Biology Part Ⅱ | 40 | 2.5 | 8 | | | 2 |
| | 必修 Required | 0812813 | 普通生物学实验 Experiment in General Biology | 32 | 1 | | 32 | | 1 |
| | 必修 Required | 0704511 | 有机化学（含实验） Organic Chemistry (Including Experiments) | 96 | 6 | | 32 | | 2 |
| | 必修 Required | 0703081 | 生物化学 Biochemistry | 88 | 5.5 | | | | 3 |
| | 必修 Required | 0704132 | 生物化学实验（一） Experiments in Biochemistry I | 24 | 0.8 | | 24 | | 3 |
| | 必修 Required | 0704142 | 生物化学实验（二） Experiments in Biochemistry II | 24 | 0.8 | | 24 | | 4 |
| | 必修 Required | 0701021 | 生物科学专业概论 Introduction to Bioscience | 16 | 1 | | | | 1 |
| | 必修 Required | 0702752 | 生物信息学 Bioinformatics | 56 | 3.5 | | | | 4 |
| | 必修 Required | 0701053 | 微生物学 Microbiology | 48 | 3 | | | | 4 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业核心课程 Major-specific Core Courses | 必修 Required | 0703103 | 微生物学实验 Experiments in Microbiology | 32 | 1 | | 32 | | 4 |
| | 必修 Required | 0703954 | 免疫学 Immunology | 32 | 2 | | | | 4 |
| | 必修 Required | 0701653 | 免疫学实验 Experiments in Immunology | 24 | 0.8 | | 24 | | 4 |
| | | | 自第五学期起在中国科学院大学和中科院生物物理所学习后续课程 | | | | | | |
| | 必修 Required | 0707671 | 分子与细胞生物学 Molecular and cell Biology | 80 | 5 | | | | 5 |
| | 必修 Required | 0707681 | 分子与细胞生物学实验 Experiments in Molecular and cell Biology | 64 | 2 | | 64 | | 5 |
| | 必修 Required | 0701054 | 遗传学 Genetics | 64 | 4 | | | | 5 |
| | 必修 Required | 0703104 | 遗传学实验 Experiments in Genetics | 64 | 2 | | 64 | | 5 |
| | 必修 Required | 0703954 | 生物科学大实验 | 64 | 2 | | 64 | | 7 |
| 专业选修课程 Major-specific Electives | | | 选修至少 20 学分 | 320 | 20 | | | | |
| | 选修 Elective | 0701111 | 生物统计学 Biostatistics | 40 | 2.5 | | | | 5 |
| | 选修 Elective | 1001038 | 生理学 Physiology | 40 | 2.5 | | | | 5 |
| | 选修 Elective | 0701242 | 发育生物学 Developmental Biology | 40 | 2.5 | | | | 6 |
| | 选修 Elective | 0707691 | 生物物理概论 | 40 | 2.5 | | | | 6 |
| | 选修 Elective | 0707701 | 生物物理技术及实验 | 40 | 2.5 | | 20 | | 6 |
| | 选修 Elective | 0703021 | 膜生物学 membrane biology | 32 | 2 | | | | 6 |
| | 选修 Elective | 0707711 | 生物化学和生物物理前沿 Frontier of Biochemistry and Biophysics | 32 | 2 | | | | 6 |
| | 选修 Elective | 0717101 | 神经生物学及实验 Neurobiology and Experiment | 32 | 2 | | 16 | | 6 |
| | 选修 Elective | 0707721 | 感染与免疫前沿进展 Progress in frontier of Infection and Immunity | 32 | 2 | | 16 | | 6 |
| | 选修 Elective | 1207101 | 表观遗传学 Epigenetics | 32 | 2 | | | | 6 |
| | 选修 Elective | 0716852 | 模式生物学 Model Organism | 32 | 2 | | | | 7 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 选修 Elective | 0702241 | 结构生物学 Structure Biology | 32 | 2 | | 16 | | 7 |
| | 选修 Elective | 0717111 | 生物成像原理与技术 principle and technology of biological imaging | 32 | 2 | | 16 | | 7 |
| 实践环节 Practical Training Items | 必　修 Required | 1306051 | 安全教育 Safety Education | 1W | 0.5 | | | | 1 |
| | 必　修 Required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必　修 Required | 1300536 | 认知实习 Perceive Practice | 1w | 0.5 | | | | 1 |
| | 必　修 Required | 1302331 | 金工实习 Industrial Practice | 2w | 1 | | | | 3 |
| | 必　修 Required | 130044b | 科研训练 Research Training | 2w | 1 | | | | 4 |
| | 必　修 Required | 1306261 | 海外生物科学交流学习 International Study | 4w | 2 | | | | 6 |
| | 必　修 Required | 1304441 | 生物学野外实习 Biological Field Practice | 3w | 1.5 | | | | 2 |
| | 必　修 Required | 130004a | 毕业设计（论文） Undergraduate Thesis | 16w | 8 | | | | 7 |

# 软 件 学 院

华中科技大学软件学院是经教育部批准（教高[2001]6号文）的首批35所国家示范性软件学院之一。

学院坚持以需求为目标，面向产业、面向领域；坚持国际合作、校企共建；坚持质量第一，素质与技术并重、基础与实践统一；坚持办学模式、管理体制、课程体系、教学内容和教学方法的改革和创新；秉承学院“厚基础、强能力、重实践、求创新”的工程化办学理念；做到人才培养与社会需求无缝接轨，使其成为培养高层次、复合型、国际化、工程型软件精英人才基地。

软件学院具有软件工程一级学科博士、硕士学位授予权，软件工程一级学科下设“软件服务与应用”和“数字媒体技术”两个学科方向，均具有博士、硕士学位授予权；学院具有“软件工程”与“数字媒体技术”两个国家级特色专业建设点和“软件工程领域”全国工程硕士研究生教育特色工程领域，是全国为数不多同时获得本科教育“国家级特色专业建设点”和研究生教育“特色工程领域”的国家示范性软件学院。

学院现设有软件工程、数字媒体技术两个本科专业。

# 软件工程专业本科培养计划

# Undergraduate Program in Software Engineering

## 一、培养目标

## Ⅰ. Program Objectives

通过与国内外软件企业、院校合作办学，培养具有扎实的基础、较宽的专业面、熟练的外语运用技能、规范的软件开发和组织能力、较强的国际竞争意识和团队合作精神的软件工程技术和软件工程管理人才。毕业生能够从事软件工程领域的科研、开发及管理等工作。

With the cooperation from software enterprises and universities, both at home and abroad, the school of software engineering is training students for them to obtain the solid fundamental knowledge, broad domain knowledge, capability of practicing standard software engineering, and the spirit of teamwork facing international competition. The graduates should be able to pursue careers in research, development and management in the software engineering area.

## 二、基本要求

## Ⅱ. Learning Outcomes

毕业生应获得以下几方面的知识和能力：

1. 具有良好的职业道德和创业精神，积极为我国经济建设和社会发展服务；

2. 掌握软件工程领域扎实的理论基础和宽广的专业知识；

3. 具备运用先进的工程化方法、技术和工具，从事软件设计、开发、维护等工作的能力，以及工程项目的组织与管理能力、团队协作能力和市场开拓能力；

4. 掌握一门外语，具备良好的阅读、理解、撰写外语资料的能力和进行国际化交流的能力；

5. 掌握文献检索、资料查询的方法和撰写研究论文的能力；

6. 具有较强的自学能力和创新意识。

Upon successful completion of the program, students will be able to:

1. Good Professional morality and creative heart; to serve for the economic construction and social development of our country;

2. Solid understanding of the fundamental theories in software engineering and extensive domain knowledge;

3. Abilities to design, develop and maintain software by using advanced methodology, technology and tools, to be good at organizing and managing projects, to possess team spirit, creativity and market pioneering spirits;

4. Mastery of a foreign language, proficiency in reading, writing and international communication;

5. Capability of literature search, data querying and thesis writing;

6. Strong abilities of Self-learning and creative.

## 三、培养特色

## Ⅲ. Program Highlights

1. 本专业强调采用系统的课程学习与工程实践相结合的培养方式，培养与国际接轨的工程型、复合型、国际化软件人才；

2. 本专业的部分课程直接采用国外最新原版英文教材，采用双语或聘请外籍专家授课；

3. 引进国外高校的先进教学模式，在精简理论知识授课时数的同时，通过软件项目实训或软件工程实践来培养学生的动手与自学能力；

4. 学生的毕业设计将在软件企业中或项目开发实践中完成。

1. The program emphasizes on both systematic course studies and practical engineering training;

2. Some of our courses will employ the latest authentic English textbooks from famous universities abroad while some other courses will be taught in two languages, and we will invite foreign experts to give lessons;

3. We tend to introduce the advanced teaching pattern of foreign universities and try to reduce the class hours for theory teaching. Meanwhile, we hope to cultivate students, practical and self-studying ability through the software development of some large-scale projects;

4. Students' thesis will be finished through the practice in the software enterprises or project development.

## 四、主干学科

## Ⅳ. Main Discipline

软件工程

Software Engineering

## 五、学制与学位

## Ⅴ. Program Length and Degree

修业年限：四年

Program Length：4 years

授予学位：工学学士

Degrees Conferred: Bachelor of Engineering

## 六、学时与学分

## Ⅵ. Credits Hours and Units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：160 学分

Minimum curriculum credits (including courses and practicum)：160 Credits

其中，专业基础课程、专业核心课程学分不允许用其他课程学分进行学分冲抵和替代。

Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：5 学分

Minimum Extracurricular Credits：5 Credits

1. 课程体系学时与学分

Course Credits Hours and Units

| 课程模块 | | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|---|
| 通识教育课程 | | 必修 | 1072/61.3 | 38.36 |
| | | 选修 | 160/10 | 6.26 |
| 学科(大类)基础课程 | | 必修 | 728/45.5 | 28.47 |
| 专业课程 | 专业核心课程 | 必修 | 288/18 | 11.26 |
| | 专业选修课程 | 选修 | 160/10 | 6.26 |
| 集中性实践教学环节 | | 必修 | 560/15 | 9.39 |
| 合计 | | | 2968/159.8 | 100 |

| Course Type | | Required /Elective | Hrs/Crs | Percentage (%) |
|---|---|---|---|---|
| General Education Core Curriculum | | Required | 1072/61.3 | 38.36 |
| | | Elective | 160/10 | 6.26 |
| Discipline-related Courses | | Required | 728/45.5 | 28.47 |
| Major-specific Courses | Core | Required | 288/18 | 11.26 |
| | Elective | Elective | 160/10 | 6.26 |
| Practicum Credits | | Required | 560/15 | 9.39 |
| Total | | | 2968/159.8 | 100 |

2. 集中性实践教学环节周数与学分

Practicum Credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 6.67 |
| 课程设计 | 必修 | 5/2.5 | 16.67 |
| 专业实训 | 必修 | 9/4.5 | 30.00 |
| 工程实践与毕业设计（论文） | 必修 | 19/7 | 46.66 |
| 合计 | | 35/15 | 100 |

| Internship & Practical Training | Course Nature | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 6.67 |
| Course Project | Required | 5/2.5 | 16.67 |
| Professional Practice | Required | 9/4.5 | 30.00 |
| Engineering Internship & Undergraduate Thesis | Required | 19/7 | 46.66 |
| Total | | 35/15 | 100 |

3. 课外学分

Extracurricular Credits

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 2 | 英语及计算机考试 | 全国大学英语六级考试 | 获六级证书者 | 2 |
| | | 托福考试 | 达 90 分以上者 | 3 |
| | | 雅思考试 | 达 6.5 分以上者 | 3 |
| | | GRE 考试 | 达 1350 分以上者 | 3 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |
| 3 | 竞赛 | 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 4 | 论文 | 权威刊物 | 每篇论文 | 5 |
| | | 重要刊物 | 每篇论文 | 3~4 |
| | | 一般刊物 | 每篇论文 | 2 |
| | | 会议宣读并收入论文集 | 每篇论文 | 2~4 |

续表

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 5 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1~3 |
| 6 | 实验 | 视创新情况 | 每项 | 1~3 |
| 7 | 学科 | 学科综述 | | 1~2 |
| | | 新技术讲座 | | 1~2 |
| | | 工程技术报告 | | 1~2 |

注：参加校体育运动会获第一名、第二名者与校级一等奖等同，获第三名至第五名者与校级二等奖等同，获第六至第八名者与校级三等奖等同。

| No. | Activities | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Activities of Social Practice | Submitting a report and passing the oral defense | | 1 |
| | | Individuals awarded "Active Participant" / Teams awarded "Excellent Performance" by HUST or Hubei Youth League Committee | | 2 |
| 2 | Examinations in English and Computer | CET-6 | Certificate | 2 |
| | | TOEFL | 90 Points or Higher | 3 |
| | | IELTS | 6.5 Points or Higher | 3 |
| | | GRE | 1350 Points or Higher | 3 |
| | | National Computer Rank Examination | Certificate (Grade 1 / 2) | 2 |
| | | Qualifications for Computer and Software Technology Proficiency | Programmer | 2 |
| | | | Senior Programmer | 3 |
| | | | System Analyst | 4 |
| 3 | Competitions | University Level | First prize | 3 |
| | | | Second prize | 2 |
| | | | Third prize | 1 |
| | | Provincial Level | First prize | 4 |
| | | | Second prize | 3 |
| | | | Third prize | 2 |
| | | National Level | First prize | 6 |
| | | | Second prize | 4 |
| | | | Third prize | 3 |
| 4 | Academic Papers | Published in national-level journals | Each paper | 2~3 |
| 5 | Research Programs | Contribution and research capability | Each program | 1~3 |
| 6 | Experiments | Innovation capacity | Each experiment | 1~3 |
| 7 | Subject | Discipline Conspectus | | 1~2 |
| | | New Technology Lectures | | 1~2 |
| | | New Engineering Technology Report | | 1~2 |

Note: In HUST Sports Meeting, the first and the second prize, the third to the fifth prize, and the sixth prize to the eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## Ⅶ. Main Courses

数据结构 Data Structures、操作系统原理 Principle of Operating Systems、软件体系结构 Software Architecture、数据库系统原理 Principle of Database Systems、编译原理 Compiler Principles、软件工程 Software Engineering、个体软件过程 Personal Software Process、面向对象程序设计 Object-Oriented Programming、软件过程管理 Software Process Management、需求工程 Requirement Engineering、软件质量与测试 Software Quality and Testing、软件项目管理 Software Project Management

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Practicum Module (experiments included)

C 语言程序设计课程设计 Course Project of Advanced Programming Language C、数据结构课程设计 Course Project of Data Structure、操作系统课程设计 Course Project of Operating Systems、编译原理课程设计 Course Project of Compiler Principles、面向对象程序设计课程设计 Course Project of Object-Oriented Programming、汇编语言程序设计课程设计 Course Project of Assembly Language Programming、军事训练 Military Training、专业实训 Professional Internship、工程实践 Software Engineering Practice、毕业设计 Undergraduate Thesis

## 九、教学进程计划表

## Ⅸ. Course Schedule

院（系）：软件学院　　专业：软件工程

School (Department): School of Software Engineering　　Specialty: Software Engineering

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育课程 General Education Core Curriculum | 必　修 Required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必　修 Required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必　修 Required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必　修 Required | 0100932 | 思政课社会实践 Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必　修 Required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必　修 Required | 0100741 | 形势与政策 Current Affairs and Policy | 32 | 2 | 14 | | | 1-6 |
| | 必　修 Required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 1 |
| | 必　修 Required | 0508453 | 综合英语（一） Comprehensive English （Ⅰ） | 56 | 3.5 | | | | 1 |
| | 必　修 Required | 0508463 | 综合英语（二） Comprehensive English （Ⅱ） | 56 | 3.5 | | | | 2 |
| | 必　修 Required | 0700011 | 微积分（一）上 Calculus (Ⅰ) | 88 | 5.5 | | | | 1 |
| | 必　修 Required | 0700012 | 微积分（一）下 Calculus (Ⅰ) | 88 | 5.5 | | | | 2 |
| | 必　修 Required | 0700048 | 大学物理（一） Physics (Ⅰ) | 64 | 4 | | | | 2 |
| | 必　修 Required | 0700049 | 大学物理（二） Physics (Ⅱ) | 64 | 4 | | | | 3 |
| | 必　修 Required | 0700041 | 物理实验（一） Physics Experiments (Ⅰ) | 32 | 1 | | 32 | | 2 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育课程 General Education Core Curriculum | 必 修 Required | 0706901 | 物理实验（二） Physics Experiments (Ⅱ) | 24 | 0.8 | | 24 | | 3 |
| | 必 修 Required | 0400111 | 大学体育（一） Physical Education(Ⅰ) | 32 | 1 | | | | 1 |
| | 必 修 Required | 0400121 | 大学体育（二） Physical Education(Ⅱ) | 32 | 1 | | | | 2 |
| | 必 修 Required | 0400131 | 大学体育（三） Physical Education(Ⅲ) | 32 | 1 | | | | 3 |
| | 必 修 Required | 0400141 | 大学体育（四） Physical Education(Ⅳ) | 32 | 1 | | | | 4 |
| | 必 修 Required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 7 |
| | 必 修 Required | 0700051 | 线性代数（一） Linear Algebra（Ⅰ） | 40 | 2.5 | | | | 2 |
| | 必 修 Required | 0700063 | 概率论与数理统计（三） Probability and Mathematics Statistics (Ⅲ) | 40 | 2.5 | | | | 3 |
| | 必 修 Required | 0700081 | 数理方程与特殊函数（一） Equations of Mathematical Physics & Special Functions (Ⅰ) | 40 | 2.5 | | | | 4 |
| | 必修 Required | 0700071 | 复变函数与积分变换 Complex Function and Integral Transform | 40 | 2.5 | | | | 3 |
| | 必修 Required | 0812561 | 计算方法 Computational Methods | 40 | 2.5 | | | 8 | 4 |
| | | | 人文社科类选修课程 Electives in the Humanities and Social Sciences | 160 | 10 | | | | 1-8 |
| 学科（大类）基础课程 Discipline-related Courses | 选修 Elective | 0801665 | 工程制图（一） Engineering Graphics （Ⅰ） | 40 | 2.5 | | | | 1 |
| | 必修 Required | 0800441 | 信息技术导论 Introduction to Information Technologies | 24 | 1.5 | | | 8 | 1 |
| | 必修 Required | 0810012 | C 语言程序设计 Advanced Programming Language (C) | 48 | 3 | | | 12 | 1 |
| | 必修 Required | 0700181 | 离散数学 Discrete Mathematics | 80 | 5 | | | | 2 |
| | 必修 Required | 0800115 | 电路理论(五) Circuit Theory (Ⅴ) | 64 | 4 | | 10 | | 3 |
| | 必修 Required | 0800413 | 数据结构 Data Structures | 48 | 3 | | | 6 | 3 |
| | 必修 Required | 0803252 | 汇编语言程序设计 Assembly Language Programming | 48 | 3 | | | 16 | 3 |
| | 必修 Required | 0809312 | 数字逻辑 Digital Logic | 48 | 3 | | | | 4 |
| | 必修 Required | 0801611 | 计算机组成原理 Principles of Computer Organization | 64 | 4 | | | 8 | 4 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 学科（大类）基础课程 Discipline-related Courses | 必修 Required | 0800421 | 操作系统原理 Principle of Operating Systems | 64 | 4 | | | 16 | 4 |
| | 选修 Elective | 0505031 | 英语强化. Intensified English | 64 | 4 | | | | 4、5 |
| | 必修 Required | 0802884 | 微机原理与接口技术 Microcomputer Principle and Interface Techniques | 48 | 3 | | | 8 | 5 |
| | 必修 Required | 0803304 | 数据库系统原理 Principle of Database Systems | 64 | 4 | | | 16 | 5 |
| | 必修 Required | 0813852 | 编译技术 Compiler Techniques | 48 | 3 | | | 16 | 5 |
| | 必修 Required | 0800141 | 计算机网络 Computer Networks | 48 | 3 | | | 16 | 6 |
| | 必修 Required | 0500023 | 专业英语 Specialty English | 32 | 2 | | | | 6 |
| | 选修 Elective | 0800454 | 信号与系统 Signals and Systems | 32 | 2 | | | | 6 |
| 专业课程·专业核心 Major-specific Core Courses | 必修 Required | 0802303 | 面向对象程序设计 Object-Oriented Programming | 48 | 3 | | | 12 | 3 |
| | 必修 Required | 0803173 | 软件工程 Software Engineering | 48 | 3 | | | 16 | 4 |
| | 必修 Required | 0804041 | 算法设计与分析 Algorithm Design and Analysis | 40 | 2.5 | | | 16 | 5 |
| | 必修 Required | 0809331 | 软件体系结构 Software Architecture | 48 | 3 | | | 16 | 5 |
| | 必修 Required | 0821111 | 软件过程管理 Software Process Management | 32 | 2 | | | 8 | 6 |
| | 必修 Required | 0810683 | 软件质量与测试 Software Quality and Testing | 40 | 2.5 | | | 12 | 6 |
| | 必修 Required | 0809352 | 软件文档写作 Software Documentation Writing | 16 | 1 | | | 4 | 6 |
| | 必修 Required | 0821161 | 软件工程形式化方法 Formal Methods in Software Engineering | 16 | 1 | | | | 6 |
| 专业课程·专业方向 Major-specific Electives | | | 专业方向选修课程（A+B） Specialization-Oriented Electives | | | | | | |
| | | | 课程组 A Group A | 128 | 8 | | | | |
| | 选修 Elective | 0827801 | 软件人才素质与发展 Software talent quality and development | 16 | 1 | | | | 1 |
| | 选修 Elective | 0813641 | 信息获取与沟通技巧 Information Catch & Communication Skills | 16 | 1 | | | 8 | 2 |
| | 选修 Elective | 0809342 | 个体软件过程 Personal Software Process | 32 | 2 | | | 12 | 4 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业课程·专业方向 Major-specific Electives | 选修 Elective | 0804321 | 人机交互技术 Human-Computer Interaction | 32 | 2 | | | 12 | 4 |
| | 选修 Elective | 0804102 | 数学建模 Mathematics Modeling | 32 | 2 | | | | 5 |
| | 选修 Elective | 0821122 | 嵌入式系统导论 Introduction to Embedded System | 32 | 2 | | | 8 | 5 |
| | 选修 Elective | 0821131 | 面向对象系统分析与设计 Object-Oriented System Analysis and Design | 48 | 3 | | | 16 | 5 |
| | 选修 Elective | 0842301 | 分布式计算 Distributed Computing | 32 | 2 | | | | 6 |
| | 选修 Elective | 0812252 | 前沿技术讲座 Lectures of Up-to-date Technology | 16 | 1 | | | | 6 |
| | 选修 Elective | 0809381 | 信息系统安全 Security of Information Systems | 32 | 2 | | | 8 | 6 |
| | 选修 Elective | 0821151 | 软件工程经济学 Software Engineering Economics | 16 | 1 | | | | 6 |
| | 选修 Elective | 0817182 | 计算机游戏设计 Computer Games Design | 48 | 3 | | | 16 | 6 |
| | 选修 Elective | 0817062 | Internet 程序设计 Internet Programming | 32 | 2 | | | 8 | 7 |
| | | | 课程组 B（校外工程实践学生免修） Group B | 192 | 12 | | | | |
| | 选修 Elective | 0814212 | 数字图像处理技术 Digital Image Processing Techniques | 40 | 2.5 | | | | 5 |
| | 选修 Elective | 0809412 | ERP 与供应链 ERP and Supply Chain | 32 | 2 | | | 12 | 6 |
| | 选修 Elective | 0808103 | 多媒体技术 Multimedia Techniques | 40 | 2.5 | | | 8 | 7 |
| | 选修 Elective | 0835211 | 软件项目管理 Software Project Management | 32 | 2 | | | 12 | 7 |
| | 选修 Elective | 0821102 | 需求工程 Requirement Engineering | 24 | 1.5 | | | | 7 |
| | 选修 Elective | 0827811 | 移动应用开发 Mobile Applications Development | 32 | 2 | | | 20 | 7 |
| | 选修 Elective | 0835392 | 移动计算技术 Mobile Computing | 32 | 2 | | | | 7 |
| | 选修 Elective | 0800225 | 计算机图形学 Computer Graphics | 40 | 2.5 | | | 8 | 7 |
| | 选修 Elective | 0806401 | 数据仓库与数据挖掘 Data Warehouse and Data Mining | 32 | 2 | | | 12 | 7 |
| | 选修 Elective | 0821092 | 多核与并行程序设计 Multi-core and Parallel Programming | 32 | 2 | | | 8 | 7 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业课程·专业方向 Major-specific Electives | 选修 Elective | 0821171 | 嵌入式实时操作系统 Embedded Real-Time Operating System | 32 | 2 | | | 8 | 7 |
| | 选修 Elective | 1202923 | 电子商务 Electronic Business | 24 | 1.5 | | | 8 | 7 |
| | 选修 Elective | 0821181 | 职业素质讲座 Professional Quality Lecture | 16 | 1 | | | | 7 |
| | 选修 Elective | 0821191 | 领导力培养讲座 Leadership Development Lecture | 16 | 1 | | | | 7 |
| | 选修 Elective | 0821201 | 财务专题讲座 Finance Lecture | 16 | 1 | | | | 7 |
| | 选修 Elective | 0812291 | 专业认证 Professional Certifications | 16 | 1 | | | | 7 |
| | 选修 Elective | 0809432 | 创业讲座 Entrepreneurship Lectures | 16 | 1 | 8 | | | 7 |
| | 选修 Elective | 0842071 | XML 数据库及应用 XML Databases and applications | 24 | 1.5 | | | | 7 |
| | | | 课程组 C 大数据处理与管理方向课程 Group C | 352 | 22 | | | | |
| | 选修 Elective | 0842321 | 企业计算概述 Introduction to Enterprise Computing | 32 | 2 | | | | 4 |
| | 选修 Elective | 0842331 | 大型数据库管理与应用 Large-scale Database Management and Application | 32 | 2 | | | | 5 |
| | 选修 Elective | 0842341 | 大型数据交易事务处理系统 Large-scale Transaction Processing System | 32 | 2 | | | | 6 |
| | 选修 Elective | 0842351 | 大数据与云计算 Big Data and Cloud Computing | 32 | 2 | | | | 7 |
| | 选修 Elective | 0842361 | 智能数据处理 Intelligent Data Processing | 32 | 2 | | | | 7 |
| | 选修 Elective | 0832251 | 综合实验 Comprehensive Experiments | 40 | 2.5 | | | | 7 |
| 实践环节 practical training items | 必修 Required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必修 Required | 1301311 | C 语言程序设计课程设计 Course Project of Advanced Programming Language C | 1w | 0.5 | | | | 1 |
| | 选修 Elective | 1300302 | 数据结构课程设计 Course Project of Data Structure | 1w | 0.5 | | | | 3 |
| | 必修 Required | 1327332 | 面向对象程序设计课程设计 Course Project of Object-Oriented Programming | 1w | 0.5 | | | | 3 |
| | 必修 Required | 1300312 | 汇编语言程序设计课程设计 Course Project of Assembly Language Programming | 1w | 0.5 | | | | 3 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 实践环节 practical training items | 必修 Required | 1300326 | 操作系统原理课程设计 Course Project of Principle of Operating System | 1w | 0.5 | | | | 4 |
| | 必修 Required | 1300365 | 编译技术课程设计 Course Project of Compiler Techniques | 1w | 0.5 | | | | 5 |
| | 选修 Elective | 1327302 | 面向对象系统分析与设计课程设计 Course Project of Object-Oriented system Analysis and design | 1w | 0.5 | | | | 5 |
| | 必修 Required | 1328042 | 专业实训（一） Engineering Internship | 2w | 1 | | | | 2 |
| | 必修 Required | 1328052 | 专业实训（二） Engineering Internship | 3w | 1.5 | | | | 4 |
| | 必修 Required | 1328062 | 专业实训（三） Engineering Internship | 4w | 2 | | | | 6 |
| | 必修 Required | 1328072 | 工程实践与毕业设计（论文）* Software Engineering Practice & Undergraduate Thesis | 19w | 7 | | | | 7-8 |

*校内工程实践与毕业设计学生，第七学期选课程组 B 的相关课程和校内工程实践基地的实践环节；校外工程实践与毕业设计学生，第七学期在校外工程实践基地所获工程实践学分经学院确认后，等价校内学生第七学期所修相同学分数。

# 软件工程第二主修专业培养计划

## Undergraduate Program for the Second Specialty in Software Engineering

### 一、培养目标

### Ⅰ. Program Objectives

培养具有扎实的基础、较宽的专业面、熟练的外语运用技能、规范的软件开发和组织能力、较强的国际竞争意识和团队合作精神的软件工程技术和软件工程管理人才。毕业生能够从事软件工程领域的科研、开发及管理等工作。

The school of software engineering is training students for them to obtain the solid fundamental knowledge, broad domain knowledge, capability of practicing standard software engineering, and the spirit of teamwork facing international competition. The graduates should be able to pursue careers in research, development and management in the software engineering area.

### 二、学位

### Ⅱ. Degree Conferred

工学学士

Bachelor of Engineering

### 三、学分

### Ⅲ. Credits

完成学业最低学分要求：47 学分

Minimum Course Credits：47 Credits

其中：

Including：

学科(大类)基础课程：30.5 学分

Discipline-related Courses：30.5 Credits

专业核心课程：10.5 学分

Major-specific Core Courses：10.5 Credits

毕业设计：6 学分

Undergraduate Thesis：6 Credits

### 四、教学进程计划表

### Ⅳ. Course Schedule

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 学科（大类）基础课程 | 必修 Required | 0800441 | 信息技术导论 Introduction to Information Technologies | 24 | 1.5 | | | 4 | 1 |
| | 必修 Required | 0810012 | C 语言程序设计 Advanced Programming Language (C) | 48 | 3 | | | 12 | 1 |
| | 必修 Required | 0801611 | 计算机组成原理 Principles of Computer Organization | 64 | 4 | | | 8 | 4 |
| | 必修 Required | 0800141 | 计算机网络 Computer Network | 48 | 3 | | | 16 | 6 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 学科（大类）基础课程 Discipline-related Courses | | | 同一学科大类的学生，其已修的学科大类基础课程学分可冲抵上述相应学分数 (for those whose first specialty is in this general discipline, the credits they obtained through basic courses in general discipline could be commuted into this section) | | | | | | |
| | 必修 Required | 0800413 | 数据结构 Data Structures | 48 | 3 | | | 8 | 3 |
| | 必修 Required | 0803173 | 软件工程 Software Engineering | 48 | 3 | | | 16 | 4 |
| | 必修 Required | 0700181 | 离散数学 Discrete Mathematics | 80 | 5 | | | | 2 |
| | 必修 Required | 0800421 | 操作系统原理 Principle of Operating Systems | 64 | 4 | | | 16 | 4 |
| | 必修 Required | 0803304 | 数据库系统原理 Principle of Database Systems | 64 | 4 | | | 16 | 5 |
| 专业核心课程 Major-specific Core Courses | 必修 Required | 0809131 | 面向对象程序设计 Object-Oriented Programming | 48 | 3 | | | 12 | 3 |
| | 必修 Required | 0809331 | 软件体系结构 Software Architecture | 48 | 3 | | | 16 | 5 |
| | 必修 Required | 0810682 | 软件质量与测试 Software Quality and Testing | 40 | 2.5 | | | 12 | 6 |
| | 必修 Required | 0835211 | 软件过程管理 Software Process Management | 32 | 2 | | | 8 | 6 |
| 实践环节 practical training items | 必修 Required | 1328072 | 毕业设计（论文） Undergraduate Thesis | 12w | 6 | | | | 7-8 |

# 软件工程辅修专业培养计划

## Undergraduate Program for Auxiliary Specialty in Software Engineering

### 一、培养目标

### Ⅰ. Program Objectives

培养具有较扎实的基础、较宽的专业面、熟练的外语运用能力、规范的软件开发和组织能力、较强的国际竞争意识和团队合作精神的软件工程技术和软件工程管理人才。

The school of software engineering is training talents of software engineering technology and software engineering management, who will have well-knit rudimentary knowledge, very broad professional field of vision, proficiency in skills of using English, capability of canonical software development and organizing, and better recognizing of international competition and teamwork spirit.

### 二、学分

### Ⅱ. Credits

完成学业最低学分要求：28 学分

Minimum Course Credits：28 Credits

其中：

Including：

学科基础课程：22 学分

Discipline-related General Courses：22 Credits

学科专业课程：6 学分

Basic Sub-disciplinary Courses：6 Credits

### 三、教学进程计划表

### Ⅲ. Course Schedule

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 学科基础课程 Discipline-related General Courses | 必修 Required | 0700181 | 离散数学 Discrete Mathematics | 80 | 5 | | | | 2 |
| | 必修 Required | 0800413 | 数据结构 Data Structure | 48 | 3 | | | 8 | 3 |
| | 必修 Required | 0803173 | 软件工程 Software Engineering | 48 | 3 | | | 16 | 4 |
| | 必修 Required | 0801611 | 计算机组成原理 Principles of Computer Organization | 64 | 4 | | | 8 | 4 |
| | 必修 Required | 0800141 | 计算机网络 Computer Network | 48 | 3 | | | 16 | 6 |
| | 选修 Elective | 0800421 | 数据库系统原理 Principle of Database Systems | 64 | 4 | | | 16 | 5 |
| 学科专业课程 Basic Subdisciplinary Courses | 必修 Elective | 0809131 | 面向对象程序设计 Object-Oriented Programming | 48 | 3 | | | 12 | 3 |
| | 必修 Required | 0809331 | 软件体系结构 Software Architecture | 48 | 3 | | | 16 | 5 |

# 数字媒体技术专业本科培养计划

# Undergraduate Program in Digital Media Technology

## 一、培养目标

## Ⅰ. Program Objectives

本专业围绕数字媒体内容产业对工程技术人才的需求，通过与国内外软件企业、公司、院校合作办学，培养理论基础扎实、知识结构合理、专业面宽广、专业特长鲜明、适应性和竞争力强、善于团队合作的高素质数字媒体专业工程技术人才。毕业生能够从事数字媒体内容的制作、分发、运营、管理和消费服务等工作，以及进行数字媒体领域的技术创新和科学研究工作。

In light of the talent demand of digital media industry, the program establishes cooperation with software enterprises, companies, and universities at home and aboard to offer students solid theoretical basis, rational knowledge structure, wide range of expertise, special major strength, adaptability, and competitiveness. Graduates of the program will be capable of engage in the production, dissemination, operation, management, and consumer service of digital media industry, as well as conducting technical innovation and research of digital media.

## 二、基本规格要求

## Ⅱ. Learning Outcomes

毕业生应获得以下几方面的知识和能力：

1. 具有良好的职业道德和创业精神，积极为我国经济建设和社会发展服务；

2. 掌握数字媒体领域的基础理论和宽广的专业知识；

3. 具备运用先进的工程化方法、技术和工具，从事数字媒体内容的制作、分发、运营、管理和消费服务的能力，良好的团队协作能力和产业分工竞争力；

4. 具有在数字媒体领域研发创新工程化方法和生产技术平台，进行科学研究的能力；

5. 掌握一门外语，具备良好的阅读、理解、撰写外语资料的能力和进行国际化交流的能力；

6. 掌握文献检索、资料查询的方法和撰写研究论文的能力；

7. 具有较强的自学能力和创新意识；

8. 具有适应社会工作岗位的综合素质和能力。

The graduates will be equipped with relevant knowledge and abilities, specifically the following：

1. Good professional ethics and entrepreneurship; be capable of providing service for the economic and social development of the State；

2. Theoretical basis and expertise of digital media industry；

3. Ability to employ advance engineering methods, technologies and tools for the production, dissemination, operation, management, and consumer service of digital media industry, to engage in teamwork, and to compete in their own arena；

4. Ability to conduct scientific research in digital media to develop new engineering methods and production platforms；

5. A foreign language; ability to read, comprehend and write materials in foreign language, as well as conduct international communication；

6. Ability to search documents and relevant information and write research thesis；

7. Self-study ability and innovation awareness；

8. Literacy and capacity to adapt to society and post of duty.

## 三、培养特色

## Ⅲ. Program Highlights

1. 本专业采用系统的理论教学与实践教学相结合的培养方式，培养能够充分满足数字媒体相关领域需求的实用型、高素质的工程技术人才；

2. 本专业的部分课程直接采用国外最新原版英文教材，采用双语或聘请外籍专家授课；

3. 引进国外高校的先进教学模式，在精简理论知识授课时数的同时，通过课程设计和项目实践来培养学生的实践动手能力；

4. 学生的毕业设计将在软件企业中或项目开发实践中完成。

1. The program integrates theoretical and practical education together to offer students the knowledge and expertise required by digital media industry;

2. Original foreign textbooks are directly employed in some courses of the program. Such courses will be taught bilingually or by foreign expert;

3. Advance teaching mode of overseas colleges and universities will be introduced into the program. Theoretical teaching hours will be reduced and optimized to allow more time for the practice of students through program design and project practice;

4. Graduation project of students will be accomplished in software enterprises or through development and practices of project.

## 四、主干学科

## Ⅳ. Main Discipline

软件工程——数字媒体技术

Software Engineering-Digital Media Technology

## 五、学制与学位

## Ⅴ. Program Length and Degree

修业年限：四年

Program Length：4 years

授予学位：工学学士

Degrees Conferred: Bachelor of Engineering

## 六、学时与学分

## Ⅵ. Credits Hours and Units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：160 学分

Minimum curriculum credits (including courses and practicum)：160 credits

其中，专业基础课程、专业核心课程学分不允许用其他课程学分进行学分冲抵和替代。

Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：5 学分

Minimum Extracurricular Credits：5 credits

1. 课程体系学时与学分

Course Credits Hours and Units

| 课程模块 | | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|---|
| 通识教育课程 | | 必修 | 1072/61.3 | 38.36 |
| | | 选修 | 160/10 | 6.26 |
| 学科(大类)基础课程 | | 必修 | 720/45 | 28.16 |
| 专业课程 | 专业核心课程 | 必修 | 288/18 | 11.26 |
| | 专业选修课程 | 选修 | 168/10.5 | 6.57 |
| 集中性实践教学环节 | | 必修 | 560/15 | 9.39 |
| 合计 | | | 2968/159.8 | 100 |

| Course Type | | Required /Elective | Hrs/Crs | Percentage (%) |
|---|---|---|---|---|
| General Education Core Curriculum | | Required | 1072/61.3 | 38.36 |
| | | Elective | 160/10 | 6.26 |
| Discipline-related Courses | | Required | 720/45 | 28.16 |
| Major-specific Courses | Core | Required | 288/18 | 11.26 |
| | Elective | Elective | 168/10.5 | 6.57 |
| Practicum Credits | | Required | 560/15 | 9.39 |
| Total | | | 2968/159.8 | 100 |

2. 集中性实践教学环节周数与学分

Practicum Credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 6.67 |
| 课程设计 | 必修 | 5/2.5 | 16.67 |
| 专业实训 | 必修 | 9/4.5 | 30.00 |
| 工程实践与毕业设计（论文） | 必修 | 19/7 | 46.66 |
| 合计 | | 35/15 | 100 |

| Internship & Practical Training | Course Nature | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 6.67 |
| Course Project | Required | 5/2.5 | 16.67 |
| Professional Practice | Required | 9/4.5 | 30.00 |
| Engineering Internship & Undergraduate Thesis | Required | 19/7 | 46.66 |
| Total | | 35/15 | 100 |

3. 课外学分

Extracurricular Credits

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 2 | 英语及计算机考试 | 全国大学英语六级考试 | 获六级证书者 | 2 |
| | | 托福考试 | 达 90 分以上者 | 3 |
| | | 雅思考试 | 达 6.5 分以上者 | 3 |
| | | GRE 考试 | 达 1350 分以上者 | 3 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |
| 3 | 竞赛 | 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |

续表

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 3 | 竞赛 | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 4 | 论文 | 权威刊物 | 每篇论文 | 5 |
| | | 重要刊物 | 每篇论文 | 3~4 |
| | | 一般刊物 | 每篇论文 | 2 |
| | | 会议宣读并收入论文集 | 每篇论文 | 2~4 |
| 5 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1~3 |
| 6 | 实验 | 视创新情况 | 每项 | 1~3 |
| 7 | 学科 | 学科综述 | | 1~2 |
| | | 新技术讲座 | | 1~2 |
| | | 工程技术报告 | | 1~2 |

注：参加校体育运动会获第一名、第二名者与校级一等奖等同，获第三名至第五名者与校级二等奖等同，获第六至第八名者与校级三等奖等同。

| No. | Activities | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Activities of Social Practice | Submitting a report and passing the oral defense | | 1 |
| | | Individuals awarded “Active Participant” / Teams awarded “Excellent Performance” by HUST or Hubei Youth League Committee | | 2 |
| 2 | Examinations in English and Computer | CET-6 | Certificate | 2 |
| | | TOEFL | 90 Points or Higher | 3 |
| | | IELTS | 6.5 Points or Higher | 3 |
| | | GRE | 1350 Points or Higher | 3 |
| | | National Computer Rank Examination | Certificate (Grade 1 / 2) | 2 |
| | | Qualifications for Computer and Software Technology Proficiency | Programmer | 2 |
| | | | Senior Programmer | 3 |
| | | | System Analyst | 4 |
| 3 | Competitions | University Level | First prize | 3 |
| | | | Second prize | 2 |
| | | | Third prize | 1 |
| | | Provincial Level | First prize | 4 |
| | | | Second prize | 3 |
| | | | Third prize | 2 |
| | | National Level | First prize | 6 |
| | | | Second prize | 4 |
| | | | Third prize | 3 |
| 4 | Academic Papers | Published in national-level journals | Each paper | 2~3 |
| 5 | Research Programs | Contribution and research capability | Each program | 1~3 |
| 6 | Experiments | Innovation capacity | Each experiment | 1~3 |
| 7 | Subject | Discipline Conspectus | | 1~2 |
| | | New Technology Lectures | | 1~2 |
| | | New Engineering Technology Report | | 1~2 |

Note: In HUST Sports Meeting, the first and the second prize, the third to the fifth prize, and the sixth prize to the eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## Ⅶ. Main Courses

数据结构 Data Structures、算法设计与分析 Algorithm Design and Analysis、操作系统原理 Principle of Operating Systems、数据库系统原理 Principle of Database Systems、面向对象程序设计 Object-Oriented Programming、软件工程 Software Engineering、数字媒体技术 Digital Media Techniques、计算机图形学 Computer Graphics、数字图象处理技术 Digital Image Processing、计算机游戏基础 Fundamentals of Computer Games、媒体网络分析 Media Network Analysis、计算机三维建模 Computer Aided 3D Modeling

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Practicum Module (experiments included)

C 语言程序设计课程设计 Course Project of Advanced Programming Language C、数据结构课程设计 Course Project of Data Structure、操作系统课程设计 Course Project of Operating Systems、面向对象程序设计课程设计 Course Project of Object-Oriented Programming、计算机图形学 课程设计 Course Project of Computer Graphics、计算机游戏设计课程设计 Course Project of Computer Games Design 军事训练 Military Training、专业实训 Professional Internship、工程实践 Software Engineering Practice、毕业设计 Undergraduate Thesis

## 九、教学进程计划表

## Ⅸ. Course Schedule

院（系）：软件学院　　专业：数字媒体技术

School (Department): School of Software Engineering　　Specialty: Digital Media Technology

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育课程 General Education Core Curriculum | 必　修 Required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必　修 Required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必　修 Required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必　修 Required | 0100932 | 思政课社会实践 Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必　修 Required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必　修 Required | 0100741 | 形势与政策 Current Affairs and Policy | 32 | 2 | 14 | | | 1-6 |
| | 必　修 Required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 1 |
| | 必　修 Required | 0508453 | 综合英语（一） Comprehensive English （Ⅰ） | 56 | 3.5 | | | | 1 |
| | 必　修 Required | 0508463 | 综合英语（二） Comprehensive English （Ⅱ） | 56 | 3.5 | | | | 2 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育课程 General Education Core Curriculum | 必 修 Required | 0700011 | 微积分（一）上 Calculus (Ⅰ) | 88 | 5.5 | | | | 1 |
| | 必 修 Required | 0700012 | 微积分（一）下 Calculus (Ⅰ) | 88 | 5.5 | | | | 2 |
| | 必 修 Required | 0700048 | 大学物理（一） Physics (Ⅰ) | 64 | 4 | | | | 2 |
| | 必 修 Required | 0700049 | 大学物理（二） Physics (Ⅱ) | 64 | 4 | | | | 3 |
| | 必 修 Required | 0700041 | 物理实验（一） Physics Experiments (Ⅰ) | 32 | 1 | | 32 | | 2 |
| | 必 修 Required | 0706901 | 物理实验（二） Physics Experiments (Ⅱ) | 24 | 0.8 | | 24 | | 3 |
| | 必 修 Required | 0400111 | 大学体育（一） Physical Education(Ⅰ) | 32 | 1 | | | | 1 |
| | 必 修 Required | 0400121 | 大学体育（二） Physical Education(Ⅱ) | 32 | 1 | | | | 2 |
| | 必 修 Required | 0400131 | 大学体育（三） Physical Education(Ⅲ) | 32 | 1 | | | | 3 |
| | 必 修 Required | 0400141 | 大学体育（四） Physical Education(Ⅳ) | 32 | 1 | | | | 4 |
| | 必 修 Required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 7 |
| | 必 修 Required | 0700051 | 线性代数（一） Linear Algebra（Ⅰ） | 40 | 2.5 | | | | 2 |
| | 必 修 Required | 0700063 | 概率论与数理统计（三） Probability and Mathematics Statistics (Ⅲ) | 40 | 2.5 | | | | 3 |
| | 必 修 Required | 0700081 | 数理方程与特殊函数（一） Equations of Mathematical Physics & Special Functions (Ⅰ) | 40 | 2.5 | | | | 4 |
| | 必修 Required | 0700071 | 复变函数与积分变换 Complex Function and Integral Transform | 40 | 2.5 | | | | 3 |
| | 必修 Required | 0812561 | 计算方法 Computational Methods | 40 | 2.5 | | | 8 | 4 |
| | | | 人文社科类选修课程 Electives in the Humanities and Social Sciences | 160 | 10 | | | | 1-8 |
| | 选修 Elective | 0801665 | 工程制图（一） Engineering Graphics （Ⅰ） | 40 | 2.5 | | | | 1 |
| | 必修 Required | 0800441 | 信息技术导论 Introduction to Information Technologies | 24 | 1.5 | | | 8 | 1 |
| | 必修 Required | 0810012 | C 语言程序设计 Advanced Programming Language (C) | 48 | 3 | | | 12 | 1 |
| | 必修 Required | 0700181 | 离散数学 Discrete Mathematics | 80 | 5 | | | | 2 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 学科（大类）基础课程 Discipline-related Courses | 必修 Required | 0800115 | 电路理论(五) Circuit Theory (Ⅴ) | 64 | 4 | | 10 | | 3 |
| | 必修 Required | 0800413 | 数据结构 Data Structures | 48 | 3 | | | 6 | 3 |
| | 必修 Required | 0802303 | 面向对象程序设计 Object-Oriented Programming | 48 | 3 | | | 12 | 3 |
| | 必修 Required | 0809312 | 数字逻辑 Digital Logic | 48 | 3 | | | | 4 |
| | 必修 Required | 0801611 | 计算机组成原理 Principles of Computer Organization | 64 | 4 | | | 8 | 4 |
| | 必修 Required | 0800421 | 操作系统原理 Principle of Operating Systems | 64 | 4 | | | 16 | 4 |
| | 选修 Elective | 0505031 | 英语强化. Intensified English | 64 | 4 | | | | 4、5 |
| | 必修 Required | 0802884 | 微机原理与接口技术 Microcomputer Principle and Interface Techniques | 48 | 3 | | | 8 | 5 |
| | 必修 Required | 0804041 | 算法设计与分析 Algorithm Design and Analysis | 40 | 2.5 | | | 16 | 5 |
| | 必修 Required | 0803304 | 数据库系统原理 Principle of Database Systems | 64 | 4 | | | 16 | 5 |
| | 必修 Required | 0800141 | 计算机网络 Computer Networks | 48 | 3 | | | 16 | 6 |
| | 选修 Elective | 0800454 | 信号与系统 Signals and Systems | 32 | 2 | | | | 6 |
| | 必修 Required | 0500023 | 专业英语 Specialty English | 32 | 2 | | | | 6 |
| 专业课程·专业核心 Major-specific Core Courses | 必修 Required | 0816521 | 数字媒体技术 Digital Media Techniques | 32 | 2 | | | 8 | 3 |
| | 必修 Required | 0800225 | 计算机图形学 Computer Graphics | 40 | 2.5 | | | 16 | 3 |
| | 必修 Required | 0803173 | 软件工程 Software Engineering | 48 | 3 | | | 16 | 4 |
| | 必修 Required | 0814212 | 数字图象处理技术 Digital Image Processing | 40 | 2.5 | | | 8 | 5 |
| | 必修 Required | 0817051 | 计算机游戏基础 Fundamentals of Computer Games | 48 | 3 | | | 16 | 5 |
| | 必修 Required | 0843911 | 媒体网络分析 Analysis of Media Network | 32 | 2 | | | 12 | 6 |
| | 必修 Required | 0817082 | 计算机三维建模 Computer Aided 3D Modeling | 48 | 3 | | | 16 | 6 |
| | | | 专业方向选修课程（需修满 10.5 学分） Elective courses below should be taken to get 10.5 credits. | | | | | | |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业课程-专业方向 Major-specific Electives | 选修 Elective | 0827801 | 软件人才素质与发展 Software talent quality and development | 16 | 1 | | | | 1 |
| | 选修 Elective | 0813641 | 信息获取与沟通技巧 Information Catch & Communication Skills | 16 | 1 | | | 8 | 2 |
| | 选修 Elective | 0804321 | 人机交互技术 Human-Computer Interaction | 32 | 2 | | | 12 | 4 |
| | 选修 Elective | 0821011 | Open GL 三维图形编程 Open GL 3D Graph Programming | 40 | 2.5 | | | 12 | 5 |
| | 选修 Elective | 0821131 | 面向对象系统分析与设计 Object-Oriented System Analysis and Design | 48 | 3 | | | 16 | 5 |
| | 选修 Elective | 0817322 | 虚拟现实技术 Virtual Reality Technology | 32 | 2 | | | 8 | 6 |
| | 选修 Elective | 0821051 | 数字音效与视频 Digital Audio & Digital Video | 24 | 1.5 | | | 8 | 6 |
| | 选修 Elective | 0817182 | 计算机游戏设计 Computer Games Design | 48 | 3 | | | 16 | 6 |
| | 选修 Elective | 0809381 | 信息系统安全 Security of Information Systems | 32 | 2 | | | 8 | 6 |
| | 选修 Elective | 0812252 | 前沿技术讲座 Lectures of Up-to-date Technology | 16 | 1 | | | | 6 |
| | 选修 Elective | 0810683 | 软件质量与测试 Software Quality and Testing | 40 | 2.5 | | | 12 | 6 |
| | 选修 Elective | 0843921 | 多媒体开发技术 | 48 | 3 | | | 16 | 7 |
| | 选修 Elective | 0817241 | 游戏智能 Games Intelligence | 32 | 2 | | | 8 | 7 |
| | 选修 Elective | 0817301 | 游戏测评 Games Evaluation | 32 | 2 | | | 12 | 7 |
| | 选修 Elective | 0821081 | 网页设计与脚本程序 Webpage Design & Script Programming | 32 | 2 | | | 12 | 7 |
| | 选修 Elective | 0817062 | Internet 程序设计 Internet Programming | 32 | 2 | | | 8 | 7 |
| | 选修 Elective | 0827811 | 移动应用开发 Mobile Applications Development | 32 | 2 | | | 20 | 7 |
| | 选修 Elective | 0842071 | XML 数据库及应用 XML Databases and applications | 24 | 1.5 | | | | 7 |
| | 选修 Elective | 0821071 | 数字内容管理 Management of Digital Content | 32 | 2 | | | 12 | 7 |
| | 选修 Elective | 0842351 | 大数据与云计算 Big Data and Cloud Computing | 32 | 2 | | | | 7 |
| | 选修 Elective | 0812291 | 专业认证 Professional Certifications | 16 | 1 | | | | 7 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 选修 Elective | 0821181 | 职业素质讲座 Professional Quality Lecture | 16 | 1 | | | | 7 |
| | 选修 Elective | 0809432 | 创业讲座 Entrepreneurship Lectures | 16 | 1 | 8 | | | 8 |
| 实践环节 practical training items | 必修 Required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必修 Required | 1301311 | C 语言程序设计 课程设计 Course Project of Advanced Programming Language C | 1w | 0.5 | | | | 1 |
| | 选修 Elective | 1300302 | 数据结构 课程设计 Course Project of Data Structure | 1w | 0.5 | | | | 3 |
| | 必修 Required | 1327332 | 面向对象程序设计 课程设计 Course Project of Object-Oriented Programming | 1w | 0.5 | | | | 3 |
| | 必修 Required | 1300312 | 计算机图形学 课程设计 Course Project of Computer Graphics | 1w | 0.5 | | | | 3 |
| | 必修 Required | 1300326 | 操作系统原理 课程设计 Course Project of Principle of Operating System | 1w | 0.5 | | | | 4 |
| | 必修 Required | 1300365 | 计算机游戏设计 课程设计 Course Project of Computer Games Design | 1w | 0.5 | | | | 6 |
| | 必修 Required | 1328042 | 专业实训（一） Engineering Internship | 2w | 1 | | | | 2 |
| | 必修 Required | 1328052 | 专业实训（二） Engineering Internship | 3w | 1.5 | | | | 4 |
| | 必修 Required | 1328062 | 专业实训（三） Engineering Internship | 4w | 2 | | | | 6 |
| | 必修 Required | 1328072 | 工程实践与毕业设计（论文） Software Engineering Practice & Undergraduate Thesis | 19w | 7 | | | | 7-8 |

# 经 济 学 院

华中科技大学经济学院在张培刚、林少宫等老一辈著名经济学家的带领下，发展迅速，具有完整的学科体系、较强的师资队伍、较高的学术水平、浓厚的学术氛围、和谐的工作环境和一流的硬件设施。学院现有教师55人，其中教授19人（含博士生导师17人），副教授26人，近几年已引进国内外名校毕业的博士多人。在校本科生1200多人，硕士生400多人，博士生100多人。学院现有西方经济学国家重点学科，理论经济学和应用经济学博士后流动站；理论经济学、应用经济学和统计学三个一级学科博士和硕士授予权点（涵盖10多个二级学科专业）以及金融和国际商务两个专业硕士学位点。经济学、金融学、金融工程、国际经济与贸易、国际商务、统计学6个本科专业；现代经济学研究中心和创新发展研究中心为湖北省人文社科重点研究基地。学院秉承国际化的办学理念，课程设置和人才培养与国际先进水平接轨；坚持严谨务实的学风，努力培养“官、产、学”三方面的优秀人才。历届毕业生深受社会欢迎，已涌现出一批国际一流的经济学家（在国内享有“华中科技大学经济学家现象”的声誉）和众多党政机关、企业界的精英。学院拥有1.5万多平方米的办公大楼，为每位教师提供独立的办公室和良好的办公条件。

# 经济学(实验班)专业本科培养计划

# Undergraduate Program for Specialty in Economics (Experimental class in Economics)

## 一、培养目标

### Ⅰ. Program objective

经济学实验班以培养未来的经济学家为目标，大部分专业课程采用国际一流大学英文原版教材，实行双语教学，加大数学课程的分量，与数学专业同等要求。培养有扎实的现代经济学理论基础，掌握高深的数学分析方法，能熟练运用英语进行专业交流，能运用计算机进行经济模型分析，能从事经济、金融和贸易的理论研究、教学和实际工作的高级专门人才。

This program (Experimental class in Economics) provides Experimental class of school of Economics with a sound grounding in the principles of economics and an in-depth analytical skill of mathematics, referenced the training program of international top universities. Graduates will become specialists to research and do practical work in the area of economy and finance.

## 二、基本规格要求

### Ⅱ. Learning outcomes

经济学专业毕业生应获得以下几方面的知识和能力：

1. 掌握马克思主义经济学、现代西方经济学的基本理论和方法；
2. 掌握现代经济分析方法和计算机应用技能；
3. 了解中外经济学最新的学术动态及应用前景；
4. 了解中国经济体制改革和经济发展的实际情况；
5. 熟悉党和国家的经济方针、政策和法规；
6. 掌握中外经济学文献检索、资料查询的基本方法、有较强的经济研究和实际工作能力。

The educational goals of economics seek to promote the following qualities:

1. A sound knowledge of economics;
2. Analytical skills;
3. Information technology skills;
4. Knowledge about Chinese economy development, policy and laws;
5. Documents and data searching skills;
6. Research and independent working skills.

经济学实验班毕业生应获得以下几方面的知识和能力：

1. 经济学修完国际一流大学经济学基本课程；掌握扎实的经济学基础理论；
2. 学习较多的数学课程，具有坚实的数理基础和较强的数学分析能力；
3. 熟练掌握英语，能熟练阅读英文教材及具有较强的口语交流能力；
4. 能运用计算机进行经济模型分析；
5 掌握中外文文献检索、资料查询的基本方法具有较强的经济研究和实际工作能力。

Experimental class of school of Economics

As a student of this program, you shall gain the following:

1. The basic courses of international top universities in economics;
2. The basic courses of applied mathematics program in mathematics;

3. Ability to read the English documents of the two majors and to communicate with others in English;

4. Skills of using computer to analyze economic model;

5. Skills to search documents and data and abilities to research and practical job.

## 三、培养特色

## Ⅲ. Program highlights

秉承国际化的办学理念，课程设置和人才培养基本与国际接轨。以上专业均采取“厚基础、宽口径”的培养模式，在加强专业基础理论和实务知识教学的同时，十分注重外语、数学、计算机以及科技、人文知识和社会实践能力的训练，保持外语、数学、计算机教学四年不断线；现有 10 多门课程采用英文原版教材，实行双语教学。

We hold up the international spirit of teaching and studying, close to international standard at the setting of courses and educational objectives. Among all of our specialties, we pay special attention to students' basic knowledge and skills , while we emphasize the practices of English, mathematics, information technology and social practice. We keep on teaching of English, mathematics and information technology during the whole 4 years, and apply English version textbook for teaching in over 10 courses.

## 四、主干学科

## Ⅳ. Main Disciplines

经济学

Economics

## 五、学制与学位

## Ⅴ. Program length and degree

学制：四年

Duration: 4 years

授予学位：经济学学士

Degrees Conferred: Bachelor of Economics

## 六、学时与学分

## Ⅵ. Credits hours and units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：160

Minimum Credits of Curricular (Comprising course system and intensified internship practical training)：161.5

其中，专业基础课程、专业核心课程学分不允许用其他课程学分进行冲抵和替代。

Major-related basic courses and core courses cannot be coverd using credits from other courses in the program.

完成学业最低课外学分要求：5

Minimum Extracurricular Credits：5

1. 课程体系学时与学分

Course credits hours and units

| 课程类别 | | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|---|
| 通识教育基础课程 | | 必修 | 928/54 | 39.2 |
| | | 选修 | 160/10 | 6.8 |
| 学科(大类)基础课程 | | 必修 | 928/58 | 39.2 |
| 专业课程 | 专业核心课程 | 必修 | 240/15 | 10.1 |
| | 专业选修课程 | 选修 | 112/7 | 4.7 |
| 合计 | | | 2368/144 | 100 |

| Course type | | Required/elective | Hrs/Crs | Percentage (%) |
|---|---|---|---|---|
| General education core curriculum | | Required | 928/54 | 39.2 |
| | | Elective | 160/10 | 6.8 |
| Discipline-related courses | | Required | 928/58 | 39.2 |
| Major-specific courses | Coral Courses | Required | 240/15 | 10.1 |
| | elective Courses | Elective | 112/7 | 4.7 |
| Total | | | 2368/144 | 100 |

2. 集中性实践教学环节周数与学分

Practicum credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 6.3 |
| 公益劳动 | 必修 | 1/0.5 | 3.1 |
| 专业实习 | 必修 | 5/2.5 | 15.5 |
| 社会实践 | 必修 | 3/1.5 | 9.4 |
| 课程（实验）设计 | 必修 | 3/1.5 | 9.4 |
| 科研训练 | 必修 | 2/1 | 6.3 |
| 毕业设计（论文） | 必修 | 16/8 | 50 |
| 合计 | | 32/16 | 100 |

| Internship & Practical Training | Course Nature | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 6.3 |
| Laboring for Public Benefit | Required | 1/0.5 | 3.1 |
| Professional Social Practice | Required | 5/2.5 | 15.5 |
| Social Practice | Required | 3/1.5 | 9.4 |
| Courses Design | Required | 3/1.5 | 9.4 |
| Scientific Research Training | Required | 2/1 | 6.3 |
| Undergraduate Thesis | Required | 16/8 | 50 |
| Total | | 32/16 | 100 |

3. 课外学分

Extracurricular Credits

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 2 | 英语及计算机考试 | 全国大学英语六级考试 | 获六级证书者 | 2 |
| | | 托福、GRE 考试 | 达到相应水平（需认定） | 2 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |

续表

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 3 | 竞赛 | 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 4 | 论文 | 在全国性刊物发表论文 | 每篇论文 | 2~3 |
| 5 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1~3 |
| 6 | 实验 | 视创新情况 | 每项 | 1~3 |

注：参加校体育运动会获第一名、第二名者与校级一等奖等同，获第三名至第五名者与校级二等奖等同，获第六至第八名者与校级三等奖等同。

| No. | Activities | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Community engagement | Submitting a report and passing the oral defense | | 1 |
| | | Individuals awarded “actice participant” /teams awarded “excellent performance” by HUST or Hubei youth league committee | | 2 |
| 2 | Qualifications | CET-6 | Certificate | 2 |
| | | TOEFL, GRE | Certificate | 2 |
| | | National Computer Rank Examination | Certificate(Grade 1/2) | 2 |
| | | Qualifications for computer and software technology proficiency | programmer | 2 |
| | | | Senior Programmer | 3 |
| | | | System Analyst | 4 |
| 3 | Competitions | University Level | first prize | 3 |
| | | | second prize | 2 |
| | | | third prize | 1 |
| | | Provincial Level | first prize | 4 |
| | | | second prize | 3 |
| | | | third prize | 2 |
| | | National Level | first prize | 6 |
| | | | second prize | 4 |
| | | | third prize | 3 |
| 4 | Academic papers | Published in national-level journals | Each paper | 2~3 |
| 5 | Research programs | Contribution and research capability | Each program | 1~3 |
| 6 | Experiments | Innovation capacity | Each experiment | 1~3 |

Note: In HUST Sports Meeting, the first and the second prize, the third to the fifth prize, and the sixth prize to the eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## Ⅶ. Main Courses

经济学原理 Principle of Economics、微观经济学 Micro-Economics、宏观经济学 Macro-Economics、发展经济学 Development Economics、会计学 Accounting、统计学 Statistics、财政学 Public Finance、计量经济学 Econometrics、货币银行学 Money and Banking、证券投资学 Portfolio Investment、国际金融学 International Finance、国际贸易学 International Trade

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Practicum module (experiments included)

社会调查 Social Investigation、课程大型作业 Course Project、专业实习和毕业实习 Professional Practice and Undergraduate Practice

## 九、教学进程计划表

## Ⅸ. Course Schedule

院（系）：经济学院　　专业：经济学(实验班)

School (Department): School of Economics　　Specialty: Economics

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 basic courses in general education | 必修 required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必修 required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必修 required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必修 required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必修 required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必修 required | 0100741 | 形势与政策 Current Affairs and Policy | 32 | 2 | 14 | | | 1-6 |
| | 必修 required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | 必修 required | 0508453 | 综合英语（一） College English （Ⅰ） | 56 | 3.5 | | | | 1 |
| | 必修 required | 0508463 | 综合英语（二） College English （Ⅱ） | 56 | 3.5 | | | | 2 |
| | 必修 required | 0400111 | 大学体育（一） Physical Education(Ⅰ) | 32 | 1 | | | | 1 |
| | 必修 required | 0400121 | 大学体育（二） Physical Education(Ⅱ) | 32 | 1 | | | | 2 |
| | 必修 required | 0400131 | 大学体育（三） Physical Education(Ⅲ) | 32 | 1 | | | | 3 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 basic courses in general education | 必修 required | 0400141 | 大学体育（四） Physical Education(Ⅳ) | 32 | 1 | | | | 4 |
| | 必修 required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 1 |
| | 必修 required | 0827791 | 计算机及程序设计基础（VB/C++） Advanced Programming Language (C) | 48 | 3 | | | 20 | 1 |
| | 必修 required | 0833174 | 数据库技术及应用 Database System | 32 | 2 | | | 8 | 2 |
| | 必修 required | 0703661 | 数学分析（一） Mathematical Analysis（Ⅰ） | 80 | 5 | | | | 1 |
| | 必修 required | 0703672 | 数学分析（二） Mathematical Analysis（Ⅱ） | 88 | 5.5 | | | | 2 |
| | 必修 required | 0703682 | 数学分析（三） Mathematical Analysis（Ⅲ） | 88 | 5.5 | | | | 3 |
| | 必修 required | 0700054 | 线性代数 Linear Algebra | 40 | 2.5 | | | | 2 |
| | 必修 required | 0700063 | 概率论与数理统计（三） Probability and Mathematics Statistics（III） | 40 | 2.5 | | | | 3 |
| | | | 人文社科类选修课程 Restricted Electives in the Humanities | 160 | 10 | | | | |
| 学科大类基础课程 basic courses in general discipline | 必修 required | 0400028 | 经济学科（专业）概论 Introduction to Discipline | 16 | 1 | | | | 1 |
| | 必修 required | 0100044 | 政治经济学原理 Marxist Political Economy | 48 | 3 | | | | 1 |
| | 必修 required | 0200191 | 经济学原理 The principle of Economics | 64 | 4 | | | | 1 |
| | 必修 required | 0200642 | 中级微观经济学 Microeconomics | 64 | 4 | | | | 2 |
| | 必修 required | 1200025 | 会计学 Accounting | 56 | 3.5 | | | | 3 |
| | 必修 required | 0200652 | 中级宏观经济学 Macroeconomics | 64 | 4 | | | | 3 |
| | 必修 required | 0700092 | 统计学 Statistics | 48 | 3 | | | | 3 |
| | 必修 required | 0200091 | 计量经济学 Econometrics | 64 | 4 | | | | 4 |
| | 必修 required | 0200231 | 货币银行学 Money and Banking | 48 | 3 | | | | 4 |
| | 必修 required | 1200061 | 财政学 Public Finance | 40 | 2.5 | | | | 4 |
| | 必修 required | 0200201 | 西方经济思想史 Western Economic Thought | 40 | 2.5 | | | | 4 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 学科大类基础课程 basic courses in general discipline | 必修 required | 0201041 | 经济学综合实验 Comprehensive Experiments of Economics | 64 | 4 | | | | 3-7 |
| | 必修 required | 0700301 | 随机过程 Stochastic Processes | 48 | 3 | | | | 5 |
| | 必修 required | 0200222 | 博弈论 Economic Game Theory | 40 | 2.5 | | | | 4 |
| | 必修 required | 0200151 | 国际金融学 International Finance | 48 | 3 | 8 | | | 5 |
| | 必修 required | 0200141 | 国际贸易学 International Trade | 48 | 3 | 8 | | | 5 |
| | 必修 required | 1200052 | 财务管理 Financial Management | 40 | 2.5 | | | | 5 |
| | 必修 required | 0701771 | 时间序列分析 Time Series Analysis | 48 | 3 | | | | 6 |
| | 必修 required | 0700371 | 最优控制 Theory of Optimal Control | 40 | 2.5 | | | | 7 |
| 专业核心课程 core courses in specialty | 必修 required | 0200112 | 高级微观经济学 Advanced Microeconomics | 64 | 4 | | | | 5 |
| | 必修 required | 0200131 | 高级计量经济学 Advanced Econometrics | 64 | 4 | | | | 5 |
| | 必修 required | 0200123 | 高级宏观经济学 Advanced Macroeconomics | 64 | 4 | | | | 6 |
| | 必修 required | 0200661 | 中级金融理论 Financial Theory | 48 | 3 | | | | 6 |
| 专业选修课程 specialty-oriented courses | 选修 Elective | 0200432 | 金融工程学 Financial Engineering | 40 | 2.5 | | | | 6 |
| | 选修 Elective | 0200391 | 证券投资学 Portfolio Investment | 40 | 2.5 | | | | 5 |
| | 选修 Elective | 0200881 | 精算学 Actuarial Science | 32 | 2 | | | | 7 |
| | | | 本院其它专业的选修课程 Restricted Elective in Other Specialties in the School | | | | | | |
| 实践环节 practical training items | 必修 required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必修 required | 1300024 | 公益劳动 Laboring for Public Benefit | 1w | 0.5 | | | | 8 |
| | 必修 required | 130005a | 专业实习 Professional Practice | 5w | 2.5 | | | | 6 |
| | 必修 required | 1300516 | 社会实践 Social Practice | 3w | 1.5 | | | | 4 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 实践环节practical training items | 必修 required | 130044c | 科研训练（经济学研究方法训练） Science Research Training | 2w | 1 | | | | 5 |
| | 必修 required | 1303853 | 课程（实验）设计（经济论文写作） Courses Design | 3w | 1.5 | | | | 7 |
| | 必修 required | 130004a | 毕业论文（论文） Undergraduate Thesis | 16w | 8 | | | | 8 |

注：1、经济学综合实验 64 学时由以下课程组成：统计学 8 学时，计量经济学 18 学时，证券投资学 10 学时，国际贸易实务 10 学时，财务管理 8 学时，电子商务 10 学时

# 国际经济与贸易专业本科培养计划

# Undergraduate Program for Specialty in International Economics & Trade

## 一、培养目标

## Ⅰ. Program objective

国际经济与贸易专业培养具备扎实的国际经济和国际贸易理论基础，掌握国际经济和国际贸易的基本知识与基本技能，熟悉通行的国际贸易规则和惯例，熟练掌握商务英语的听、说、阅、译的能力，运用计算机处理国内外贸易业务，能在涉外经济贸易部门、外资企业、跨国公司及政府经贸机构从事实际业务、管理、理论研究工作的高级专门人才。

The overall objective (International Economics & Trade) is to equip students with broad knowledge and skills of international economics and trade, of international trade rules and conventions, abilities of business English listening, reading and translation, and with the skill of information technology. Students are competent to do business, management and research work in international business sector, government and international companies.

## 二、基本规格要求

## Ⅱ. Learning outcomes

1. 掌握马克思主义经济学、西方经济学、国际经济学基本理论和方法；
2. 能运用计量、统计、会计的方法进行分析和研究；
3. 了解主要国家和地区的经济发展状况及其贸易政策；
4. 了解中国的对外经济与贸易政策和法规；
5. 了解国际经济学、国际贸易理论最新的发展动态；
6. 能够熟练地掌握一门外语、具有听、说、读、写、译的基本能力，能运用计算机从事涉外经济工作；
7. 掌握中外文文献检索、资料查询的基本方法，具有较强的科学研究和实际工作能力。

1. Understand key concepts and techniques in economics and international economics;
2. Apply computation, statistic and accounting skills to do analysis and research;
3. Acquire the economic situation and trade policies of developed countries and territories;
4. Acquire the economic and trade policy and laws of China;
5. Understand the trend and current stage of development of international economics and trade theories;
6. Master a foreign language, demonstrate the ability to information technology skills;
7. Apply the abilities to search documents and data and abilities to research and practical job.

## 三、培养特色

## Ⅲ. Program highlights

秉承国际化的办学理念，课程设置和人才培养基本与国际接轨。以上专业均采取“厚基础、宽口径”的培养模式，在加强专业基础理论和实务知识教学的同时，十分注重外语、数学、计算机以及科技、人文知识和社会实践能力的训练，保持外语、数学、计算机教学四年不断线；现有 10 多门课程采用英文原版教材，实行双语教学。

We hold up the international spirit of teaching and studying, close to international standard at the

setting of courses and educational objectives. Among all of our specialties, we pay special attention to students' basic knowledge and skills , while we emphasize the practices of English, mathematics, information technology and social practice. We keep on teaching of English, mathematics and information technology during the whole 4 years, and apply English version textbook for teaching in over 10 courses.

## 四、主干学科

## Ⅳ. Major Disciplines

经济学

Economics

## 五、学制与学位

## Ⅴ. Program length and degree

学制：四年

Duration: 4 years

授予学位：经济学学士

Degrees Conferred: Bachelor of Economics

## 六、学时与学分

## Ⅵ. Credits hours and units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：160

Minimum Credits of Curricular (Comprising course system and intensified internship practical training)：160

其中，专业基础课程、专业核心课程学分不允许用其他课程学分进行冲抵和替代。

Major-related basic courses and core courses cannot be coverd using credits from other courses in the program.

完成学业最低课外学分要求：5

Minimum Extracurricular Credits：5

1. 课程体系学时与学分

Course credits hours and units

| 课程类别 | | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|---|
| 通识教育基础课程 | | 必修 | 928/54 | 37.5 |
| | | 选修 | 160/10 | 6.9 |
| 学科(大类)基础课程 | | 必修 | 976/61 | 42.3 |
| 专业课程 | 专业核心课程 | 必修 | 240/15 | 10.5 |
| | 专业选修课程 | 选修 | 64/4 | 2.8 |
| 合计 | | | 2368/144 | 100 |

| Course type | | Required/elective | Hrs/Crs | Percentage (%) |
|---|---|---|---|---|
| General education core curriculum | | Required | 928/54 | 37.5 |
| | | Elective | 160/10 | 6.9 |
| Discipline-related courses | | Required | 976/61 | 42.3 |
| Major-specific courses | Coral Courses in Specialty | Required | 240/15 | 10.5 |
| | Speciaty-Oriented Courses | Elective | 64/4 | 2.8 |
| Total | | | 2368/144 | 100 |

2. 集中性实践教学环节周数与学分

Practicum credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 6.3 |
| 公益劳动 | 必修 | 1/0.5 | 3.1 |
| 专业实习 | 必修 | 5/2.5 | 15.5 |
| 社会实践 | 必修 | 3/1.5 | 9.4 |
| 课程（实验）设计 | 必修 | 3/1.5 | 9.4 |
| 科研训练 | 必修 | 2/1 | 6.3 |
| 毕业设计（论文） | 必修 | 16/8 | 50 |
| 合计 | | 32/16 | 100 |

| Internship & Practical Training | Course Nature | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 6.3 |
| Laboring for Public Benefit | Required | 1/0.5 | 3.1 |
| Professional Social Practice | Required | 5/2.5 | 15.5 |
| Social Practice | Required | 3/1.5 | 9.4 |
| Courses Design | Required | 3/1.5 | 9.4 |
| Scientific Research Training | Required | 2/1 | 6.3 |
| Undergraduate Thesis | Required | 16/8 | 50 |
| Total | | 32/16 | 100 |

3. 课外学分

Extracurricular Credits

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 2 | 英语及计算机考试 | 全国大学英语六级考试 | 获六级证书者 | 2 |
| | | 托福、GRE 考试 | 达到相应水平（需认定） | 2 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |
| 3 | 竞赛 | 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 4 | 论文 | 在全国性刊物发表论文 | 每篇论文 | 2~3 |
| 5 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1~3 |
| 6 | 实验 | 视创新情况 | 每项 | 1~3 |

注：参加校体育运动会获第一名、第二名者与校级一等奖等同，获第三名至第五名者与校级二等奖等同，获第六至第八名者与校级三等奖等同。

| No. | Activities | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Community engagement | Submitting a report and passing the oral defense | | 1 |
| | | Individuals awarded “actice participant”/teams awarded “excellent performance” by HUST or Hubei youth league committee | | 2 |
| 2 | Qualifications | CET-6 | Certificate | 2 |
| | | TOEFL, GRE | Certificate | 2 |
| | | National Computer Rank Examination | Certificate(Grade 1/2) | 2 |
| | | Qualifications for computer and software technology proficiency | programmer | 2 |
| | | | Senior Programmer | 3 |
| | | | System Analyst | 4 |
| 3 | Competitions | University Level | first prize | 3 |
| | | | second prize | 2 |
| | | | third prize | 1 |
| | | Provincial Level | first prize | 4 |
| | | | second prize | 3 |
| | | | third prize | 2 |
| | | National Level | first prize | 6 |
| | | | second prize | 4 |
| | | | third prize | 3 |
| 4 | Academic papers | Published in national-level journals | Each paper | 2~3 |
| 5 | Research programs | Contribution and research capability | Each program | 1~3 |
| 6 | Experiments | Innovation capacity | Each experiment | 1~3 |

Note: In HUST Sports Meeting, the first and the second prize, the third to the fifth prize, and the sixth prize to the eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## Ⅶ. Main Courses

经济学原理 Principle of Economics、微观经济学 Micro-Economics、宏观经济学 Macro-Economics、发展经济学 Development Economics、会计学 Accounting、统计学 Statistics、财政学 Public Finance、计量经济学 Econometrics、货币银行学 Money and Banking、证券投资学 Portfolio Investment、国际金融学 International Finance、国际贸易学 International Trade、国际投资学 International Investments

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Practicum module (experiments included)

社会调查 Social Investigation、课程大型作业 Course Project、专业实习和毕业实习 Professional Practice and Undergraduate Practice

## 九、教学进程计划表

## Ⅸ. Course Schedule

院（系）：经济学院　　专业：国际经济与贸易

School(Department): School of Economics　　Specialty: International Economics & Trade

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程basic courses in general education | 必修 required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必修 required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必修 required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必修 required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必修 required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必修 required | 0100741 | 形势与政策 Current Affairs and Policy | 32 | 2 | 14 | | | 1-6 |
| | 必修 required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | 必修 required | 0508453 | 综合英语（一） College English （Ⅰ） | 56 | 3.5 | | | | 1 |
| | 必修 required | 0508463 | 综合英语（二） College English （Ⅱ） | 56 | 3.5 | | | | 2 |
| | 必修 required | 0400111 | 大学体育（一） Physical Education(Ⅰ) | 32 | 1 | | | | 1 |
| | 必修 required | 0400121 | 大学体育（二） Physical Education(Ⅱ) | 32 | 1 | | | | 2 |
| | 必修 required | 0400131 | 大学体育（三） Physical Education(Ⅲ) | 32 | 1 | | | | 3 |
| | 必修 required | 0400141 | 大学体育（四） Physical Education(Ⅳ) | 32 | 1 | | | | 4 |
| | 必修 required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 1 |
| | 必修 required | 0827791 | 计算机及程序设计基础（VB/C++） Advanced Programming Language (C) | 48 | 3 | | | 20 | 1 |
| | 必修 required | 0833174 | 数据库技术及应用 Database System | 32 | 2 | | | 8 | 2 |
| | 必修 required | 0703661 | 数学分析（一） Mathematical Analysis (Ⅰ) | 80 | 5 | | | | 1 |
| | 必修 required | 0703672 | 数学分析（二） Mathematical Analysis (Ⅱ) | 88 | 5.5 | | | | 2 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必修 required | 0703682 | 数学分析（三） Mathematical Analysis (III) | 88 | 5.5 | | | | 3 |
| | 必修 required | 0700054 | 线性代数 Linear Algebra | 40 | 2.5 | | | | 2 |
| | 必修 required | 0700063 | 概率论与数理统计（三） Probability and Mathematics Statistics（III) | 40 | 2.5 | | | | 3 |
| | | | 人文社科类选修课程 Restricted Electives in the Humanities | 160 | 10 | | | | |
| 学科大类基础课程 basic courses in general discipline | 必修 required | 0400028 | 经济学科（专业）概论 Introduction to Discipline | 16 | 1 | | | | 1 |
| | 必修 required | 0100044 | 政治经济学原理 Marxist Political Economy | 48 | 3 | | | | 1 |
| | 必修 required | 0200191 | 经济学原理 The principle of Economics | 64 | 4 | | | | 1 |
| | 必修 required | 0200642 | 中级微观经济学 Microeconomics | 64 | 4 | | | | 2 |
| | 必修 required | 1200025 | 会计学 Accounting | 56 | 3.5 | | | | 3 |
| | 必修 required | 0200652 | 中级宏观经济学 Macroeconomics | 64 | 4 | | | | 3 |
| | 必修 required | 0700092 | 统计学 Statistics | 48 | 3 | | | | 3 |
| | 必修 required | 0200091 | 计量经济学 Econometrics | 64 | 4 | | | | 4 |
| | 必修 required | 0200231 | 货币银行学 Money and Banking | 48 | 3 | | | | 4 |
| | 必修 required | 1200061 | 财政学 Public Finance | 40 | 2.5 | | | | 4 |
| | 必修 required | 0200201 | 西方经济思想史 Western Economic Thought | 40 | 2.5 | | | | 4 |
| | 必修 required | 0201041 | 经济学综合实验 Comprehensive Experiments of Economics | 64 | 4 | | | | 3-7 |
| | 必修 required | 0200801 | 经济调查方法 Economic Survey Method | 24 | 1.5 | | | | 3 |
| | 必修 required | 0200222 | 博弈论 Economic Game Theory | 40 | 2.5 | 8 | | | 4 |
| | 必修 required | 0200151 | 国际金融学 International Finance | 48 | 3 | 8 | | | 5 |
| | 必修 required | 0200141 | 国际贸易学 International Trade | 48 | 3 | 8 | | | 5 |
| | 必修 required | 1200052 | 财务管理 Financial Management | 40 | 2.5 | 8 | | | 5 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必修 required | 0200312 | 世界经济 World Economy | 40 | 2.5 | 8 | | | 5 |
| | 必修 required | 0200272 | 中国经济改革与发展 Economic Reform and Development of China | 40 | 2.5 | 8 | | | 6 |
| | 必修 required | 0200101 | 发展经济学 Development Economics | 40 | 2.5 | 8 | | | 6 |
| | 必修 required | 0200391 | 证券投资学 Portfolio Investment | 40 | 2.5 | 8 | | | 6 |
| 专业核心课程 core courses in specialty | 必修 required | 0200322 | 国际贸易实务 International Trade Practice | 48 | 3 | | | | 5 |
| | 必修 required | 0200332 | 国际投资学 International Investments | 40 | 2.5 | | | | 5 |
| | 必修 required | 0200341 | 国际商法 International Business Law | 40 | 2.5 | | | | 5 |
| | 必修 required | 1203931 | 国际市场营销学 International Marketing | 40 | 2.5 | | | | 6 |
| | 必修 required | 0501031 | 商务英语写作 Business English Writing | 40 | 2.5 | | | | 6 |
| | 必修 required | 0200371 | 跨国公司 Transnational Corporations | 32 | 2 | | | | 6 |
| 专业选修课程 specialty-oriented courses | 选修 Elective | 0200361 | 经济地理 Economic Geography | 40 | 2.5 | | | | 6 |
| | 选修 Elective | 0200351 | 国际商务谈判 InternationalBusiness Negotiation | 32 | 2 | | | | 7 |
| | 选修 Elective | 1200111 | 电子商务 E-business | 40 | 2.5 | | | | 7 |
| | 选修 Elective | 0200842 | WTO与中国对外贸易 WTO and Foreign Trade of China | 32 | 2 | | | | 7 |
| | | | 本院其它专业的选修课程 Restricted Elective in Other Specialties in the School | | | | | | |
| 实践环节 practical training items | 必修 required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必修 required | 1300024 | 公益劳动 Laboring for Public Benefit | 1w | 0.5 | | | | 8 |
| | 必修 required | 130005a | 专业实习 Professional Practice | 5w | 2.5 | | | | 6 |
| | 必修 required | 1300516 | 社会实践 Social Practice | 3w | 1.5 | | | | 4 |
| | 必修 required | 130044c | 科研训练（经济学研究方法训练） Science Research Training | 2w | 1 | | | | 5 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必修 required | 1303853 | 课程（实验）设计（经济论文写作） Courses Design | 3w | 1.5 | | | | 7 |
| | 必修 required | 130004a | 毕业论文（论文） Undergraduate Thesis | 16w | 8 | | | | 8 |

注：1、经济学综合实验 64 学时由以下课程组成：统计学 8 学时，计量经济学 18 学时，证券投资学 10 学时，国际贸易实务 10 学时，财务管理 8 学时，电子商务 10 学时。

# 金融学专业本科培养计划

# Undergraduate Program for Specialty in Finance

## 一、培养目标

## Ⅰ. Program objective

金融学专业培养具备扎实的金融学的基本理论和分析方法，掌握金融、投资、银行和保险的基本知识和业务技能。熟悉金融保险业的政策和法规，能熟练地运用计算机和外语从事有关业务，能在银行、证券公司、投资公司、保险公司与其在其他经济管理部门和企业从事相关工作的高级专门人才。

The program provides a broad finance and trade education with opportunities to study finance, investment, banking and insurance. Financial theory and application are combined to develop skills and knowledge for finance industry needs. Students become skilled knowledge workers in banks, security companies, investment companies, insurance companies and various business sectors.

## 二、基本规格要求

## Ⅱ. Learning outcomes

1. 掌握金融学科的基本理论、基本知识；
2. 具有处理银行、证券、投资与保险等方面业务的基本能力；
3. 熟悉国家有关金融的方针、政策和法规；
4. 了解本学科的理论前沿和最新的发展动态；
5. 掌握文献检索、资料查询的基本方法，具有较强的科学研究和实际工作能力。

1. Gain a specialist qualification in finance and banking;

2. Techniques to cover the business such as banking, security, investment and insurance;

3 Acquired the finance and banking policy and laws of China;

4. Ability to understand the trend and current state of development of international economics and trade theories;

5. Skills to search documents and data and abilities to research and practical job.

## 三、培养特色

## Ⅲ. Program highlights

秉承国际化的办学理念，课程设置和人才培养基本与国际接轨。以上专业均采取“厚基础、宽口径”的培养模式，在加强专业基础理论和实务知识教学的同时，十分注重外语、数学、计算机以及科技、人文知识和社会实践能力的训练，保持外语、数学、计算机教学四年不断线；现有 10 多门课程采用英文原版教材，实行双语教学。

We hold up the international spirit of teaching and studying, close to international standard at the setting of courses and educational objectives. Among all of our specialties, we pay special attention to students' basic knowledge and skills , while we emphasize the practices of English, mathematics, information technology and social practice. We keep on teaching of English, mathematics and information technology during the whole 4 years, and apply English version textbook for teaching in over 10 courses.

## 四、主干学科

## Ⅳ. Main Disciplines

经济学

Economics

## 五、学制与学位

## Ⅴ. Program length and degree

学制：四年

Duration: 4 years

授予学位：经济学学士

Degrees Conferred: Bachelor of Economics

## 六、学时与学分

## Ⅵ. Credits hours and units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：160

Minimum Credits of Curricular (Comprising course system and intensified internship practical training)：160

其中，专业基础课程、专业核心课程学分不允许用其他课程学分进行冲抵和替代。

Major-related basic courses and core courses cannot be coverd using credits from other courses in the program.

完成学业最低课外学分要求：5

Minimum Extracurricular Credits：5

1. 课程体系学时与学分

Course credits hours and units

| 课程类别 | | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|---|
| 通识教育基础课程 | | 必修 | 928/54 | 37.5 |
| | | 选修 | 160/10 | 6.9 |
| 学科(大类)基础课程 | | 必修 | 936/58.5 | 40.6 |
| 专业课程 | 专业核心课程 | 必修 | 192/12 | 8.4 |
| | 专业选修课程 | 选修 | 152/9.5 | 6.6 |
| 合计 | | | 2368/144 | 100 |

| Course type | | Required/elective | Hrs/Crs | Percentage (%) |
|---|---|---|---|---|
| General education core curriculum | | Required | 928/54 | 37.5 |
| | | Elective | 160/10 | 6.9 |
| Discipline-related courses | | Required | 936/58.5 | 40.6 |
| Major-specific courses | Coral Courses | Required | 192/12 | 8.4 |
| | elective Courses | Elective | 152/9.5 | 6.6 |
| Total | | | 2368/144 | 100 |

2. 集中性实践教学环节周数与学分

Practicum credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 6.3 |
| 公益劳动 | 必修 | 1/0.5 | 3.1 |
| 专业实习 | 必修 | 5/2.5 | 15.5 |
| 社会实践 | 必修 | 3/1.5 | 9.4 |
| 课程（实验）设计 | 必修 | 3/1.5 | 9.4 |
| 科研训练 | 必修 | 2/1 | 6.3 |
| 毕业设计（论文） | 必修 | 16/8 | 50 |
| 合计 | | 32/16 | 100 |

| Internship & Practical Training | Course Nature | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 6.3 |
| Laboring for Public Benefit | Required | 1/0.5 | 3.1 |
| Professional Social Practice | Required | 5/2.5 | 15.5 |
| Social Practice | Required | 3/1.5 | 9.4 |
| Courses Design | Required | 3/1.5 | 9.4 |
| Scientific Research Training | Required | 2/1 | 6.3 |
| Undergraduate Thesis | Required | 16/8 | 50 |
| Total | | 32/16 | 100 |

3. 课外学分

Extracurricular Credits

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 2 | 英语及计算机考试 | 全国大学英语六级考试 | 获六级证书者 | 2 |
| | | 托福、GRE 考试 | 达到相应水平（需认定） | 2 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |
| 3 | 竞赛 | 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 4 | 论文 | 在全国性刊物发表论文 | 每篇论文 | 2~3 |
| 5 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1~3 |
| 6 | 实验 | 视创新情况 | 每项 | 1~3 |

注：参加校体育运动会获第一名、第二名者与校级一等奖等同，获第三名至第五名者与校级二等奖等同，获第六至第八名者与校级三等奖等同。

| No. | Activities | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Community engagement | Submitting a report and passing the oral defense | | 1 |
| | | Individuals awarded “actice participant” /teams awarded “excellent performance” by HUST or Hubei youth league committee | | 2 |
| 2 | Qualifications | CET-6 | Certificate | 2 |
| | | TOEFL, GRE | Certificate | 2 |
| | | National Computer Rank Examination | Certificate(Grade 1/2) | 2 |
| | | Qualifications for computer and software technology proficiency | programmer | 2 |
| | | | Senior Programmer | 3 |
| | | | System Analyst | 4 |
| 3 | Competitions | University Level | first prize | 3 |
| | | | second prize | 2 |
| | | | third prize | 1 |
| | | Provincial Level | first prize | 4 |
| | | | second prize | 3 |
| | | | third prize | 2 |
| | | National Level | first prize | 6 |
| | | | second prize | 4 |
| | | | third prize | 3 |
| 4 | Academic papers | Published in national-level journals | Each paper | 2~3 |
| 5 | Research programs | Contribution and research capability | Each program | 1~3 |
| 6 | Experiments | Innovation capacity | Each experiment | 1~3 |

Note: In HUST Sports Meeting, the first and the second prize, the third to the fifth prize, and the sixth prize to the eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## Ⅶ. Main Courses

经济学原理 Principle of Economics、微观经济学 Micro-Economics、宏观经济学 Macro-Economics、会计学 Accounting、统计学 Statistics、财政学 Public Finance、计量经济学 Econometrics 管理学原理 Management、货币银行学 Money and Banking、证券投资学 Portfolio Investment、国际金融学 International Finance、国际贸易学 International Trade、保险学 Insurance

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Practicum module (experiments included)

社会调查 Social Investigation、课程大型作业 Course Project、专业实习和毕业实习 Professional Practice and Undergraduate Practice

## 九、教学进程计划表

## Ⅸ. Course Schedule

院（系）：经济学院　　专业：金融学

School(Department): School of Economics　　Specialty: Finance

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程basic courses in general education | 必修 required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必修 required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必修 required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必修 required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必修 required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必修 required | 0100741 | 形势与政策 Current Affairs and Policy | 32 | 2 | 14 | | | 1-6 |
| | 必修 required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | 必修 required | 0508453 | 综合英语（一） College English （Ⅰ） | 56 | 3.5 | | | | 1 |
| | 必修 required | 0508463 | 综合英语（二） College English （Ⅱ） | 56 | 3.5 | | | | 2 |
| | 必修 required | 0400111 | 大学体育（一） Physical Education(Ⅰ) | 32 | 1 | | | | 1 |
| | 必修 required | 0400121 | 大学体育（二） Physical Education(Ⅱ) | 32 | 1 | | | | 2 |
| | 必修 required | 0400131 | 大学体育（三） Physical Education(Ⅲ) | 32 | 1 | | | | 3 |
| | 必修 required | 0400141 | 大学体育（四） Physical Education(Ⅳ) | 32 | 1 | | | | 4 |
| | 必修 required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 1 |
| | 必修 required | 0827791 | 计算机及程序设计基础（VB/C++） Advanced Programming Language (C) | 48 | 3 | | | 20 | 1 |
| | 必修 required | 0833174 | 数据库技术及应用 Database System | 32 | 2 | | | 8 | 2 |
| | 必修 required | 0703661 | 数学分析（一） Mathematical Analysis (Ⅰ) | 80 | 5 | | | | 1 |
| | 必修 required | 0703672 | 数学分析（二） Mathematical Analysis (Ⅱ) | 88 | 5.5 | | | | 2 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必修 required | 0703682 | 数学分析（三） Mathematical Analysis (III) | 88 | 5.5 | | | | 3 |
| | 必修 required | 0700054 | 线性代数 Linear Algebra | 40 | 2.5 | | | | 2 |
| | 必修 required | 0700063 | 概率论与数理统计（三） Probability and Mathematics Statistics（III) | 40 | 2.5 | | | | 3 |
| | | | 人文社科类选修课程 Restricted Electives in the Humanities | 160 | 10 | | | | |
| 学科大类基础课程 basic courses in general discipline | 必修 required | 0400028 | 经济学科（专业）概论 Introduction to Discipline | 16 | 1 | | | | 1 |
| | 必修 required | 0100044 | 政治经济学原理 Marxist Political Economy | 48 | 3 | | | | 1 |
| | 必修 required | 0200191 | 经济学原理 The principle of Economics | 64 | 4 | | | | 1 |
| | 必修 required | 0200642 | 中级微观经济学 Microeconomics | 64 | 4 | | | | 2 |
| | 必修 required | 1200025 | 会计学 Accounting | 56 | 3.5 | | | | 3 |
| | 必修 required | 0200652 | 中级宏观经济学 Macroeconomics | 64 | 4 | | | | 3 |
| | 必修 required | 0700092 | 统计学 Statistics | 48 | 3 | | | | 3 |
| | 必修 required | 0200091 | 计量经济学 Econometrics | 64 | 4 | | | | 4 |
| | 必修 required | 0200231 | 货币银行学 Money and Banking | 48 | 3 | | | | 4 |
| | 必修 required | 1200061 | 财政学 Public Finance | 40 | 2.5 | | | | 4 |
| | 必修 required | 0201041 | 经济学综合实验 Comprehensive Experiments of Economics | 64 | 4 | | | | 3-7 |
| | 必修 required | 0200801 | 经济调查方法 Economic Survey Method | 24 | 1.5 | | | | 3 |
| | 必修 required | 0200222 | 博弈论 Game Theory | 40 | 2.5 | 8 | | | 4 |
| | 必修 required | 0200151 | 国际金融学 International Finance | 48 | 3 | 8 | | | 5 |
| | 必修 required | 0200141 | 国际贸易学 International Trade | 48 | 3 | 8 | | | 5 |
| | 必修 required | 1200052 | 财务管理 Financial Management | 40 | 2.5 | 8 | | | 5 |
| | 必修 required | 0200272 | 中国经济改革与发展 Economic Reform and Development of China | 40 | 2.5 | 8 | | | 6 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必修 required | 1200231 | 管理学原理 Management | 40 | 2.5 | 8 | | | 5 |
| | 必修 required | 0200662 | 中级金融理论 | 40 | 2.5 | 8 | | | 6 |
| | 必修 required | 0200391 | 证券投资学 Portfolio Investment | 40 | 2.5 | 8 | | | 6 |
| 专业核心课程 core courses in specialty | 必修 required | 0700301 | 随机过程 Stochastic Processes | 48 | 3 | | | | 5 |
| | 必修 required | 0200421 | 财务报表分析 Financial Report Form Analysis | 32 | 2 | | | | 5 |
| | 必修 required | 0200401 | 银行业务与管理 Bank Practice and Management | 32 | 2 | | | | 5 |
| | 必修 required | 0200411 | 保险学 Insurance | 40 | 2.5 | | | | 6 |
| | 必修 required | 0200432 | 金融工程学 Financial Engineering | 40 | 2.5 | | | | 6 |
| 专业选修课程 specialty-oriented courses | 选修 Elective | 0200381 | 国际结算 International Settlement | 32 | 2 | | | | 6 |
| | 选修 Elective | 0200891 | 公司金融 Corporation Finance | 40 | 2.5 | | | | 6 |
| | 选修 Elective | 0200871 | 金融风险管理 Financial Risk Management | 32 | 2 | | | | 6 |
| | 选修 Elective | 0200851 | 房地产金融与投资 Financing & Investment in Real Estate | 32 | 2 | | | | 7 |
| | 选修 Elective | 0200861 | 投资银行学 Investment Bank | 32 | 2 | | | | 7 |
| | 选修 Elective | 0209231 | 互联网金融 | 16 | 1 | | | | 7 |
| | 选修 Elective | 0200881 | 精算学 Actuarial Science | 32 | 2 | | | | 7 |
| | 选修 Elective | 0209241 | 公司金融案例分析 | 16 | 1 | | | | 7 |
| | | | 本院其它专业的选修课程 Restricted Elective in Other Specialties in the School | | | | | | |
| 实践环节 practical training items | 必修 required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必修 required | 1300024 | 公益劳动 Laboring for Public Benefit | 1w | 0.5 | | | | 8 |
| | 必修 required | 130005a | 专业实习 Professional Practice | 5w | 2.5 | | | | 6 |
| | 必修 required | 1300516 | 社会实践 Social Practice | 3w | 1.5 | | | | 4 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必修 required | 130044c | 科研训练（经济学研究方法训练） Science Research Training | 2w | 1 | | | | 5 |
| | 必修 required | 1303853 | 课程（实验）设计（经济论文写作） Courses Design | 3w | 1.5 | | | | 7 |
| | 必修 required | 130004a | 毕业论文（论文） Undergraduate Thesis | 16w | 8 | | | | 8 |

注：1、经济学综合实验 64 学时由以下课程组成：统计学 8 学时，计量经济学 18 学时，证券投资学 10 学时，国际贸易实务 10 学时，财务管理 8 学时，电子商务 10 学时。

# 金融学第二主修专业培养计划

## Undergraduate Program for the Second Specialty in Finance and Banking

### 一、培养目标

### Ⅰ. Program objective

金融学第二主修专业培养具备较强的金融学的基本理论基础和掌握分析方法，掌握金融、投资、银行和保险的基本知识和业务技能，能熟练地运用计算机和外语从事有关业务的复合型人才。

The program (Finance and Banking) provides a broad finance and trade education with opportunities to study finance, investment, banking and insurance. Finance theory and application are combined to develop skills and knowledge for finance industry needs.

### 二、学位

### Ⅱ. Program length and degree

经济学学士

Bachelor of Economics

### 三、学时与学分

### Ⅲ. Credits hours and units

完成学业最低学分要求：51

Minimum Course Credits：51

其中：

Including：

学科大类基础课程：18 学分

Discipline-related general courses：18

学科专业基础课程：17.5 学分

Basic sub-disciplinary courses：17.5

专业课程：7.5 学分

Major-specific courses：7.5

毕业设计：8 学分

Undergraduate Thesis：8

### 四、教学进程计划表

### Ⅳ. Course Schedule

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 学科大类基础课程 Discipline-related general courses | 必　修 Required | 0200642 | 中级微观经济学 Microeconomics | 64 | 4 | | | | 1 |
| | 必　修 Required | 1200025 | 会计学 Accounting | 56 | 3.5 | | | | 1 |
| | 必　修 Required | 0700092 | 统计学 Statistics | 48 | 3 | | | | 1 |
| | 必　修 Required | 0200652 | 中级宏观经济学 Macroeconomics | 64 | 4 | | | | 2 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必 修 Required | 0200091 | 计量经济学 Econometrics | 56 | 3.5 | | | | 2 |
| 学科专业基础课程 Basic sub-disciplinary courses | 必 修 Required | 1200061 | 财政学 Public Finance | 40 | 2.5 | | | | 2 |
| | 必 修 Required | 0200231 | 货币银行学 Money and Banking | 40 | 2.5 | | | | 3 |
| | 必 修 Required | 0200151 | 国际金融学 International Finance | 40 | 2.5 | | | | 3 |
| | 必 修 Required | 0200141 | 国际贸易学 International Trade | 40 | 2.5 | | | | 3 |
| | 必 修 Required | 1200231 | 企业管理学 Enterprise Management | 40 | 2.5 | | | | 4 |
| | 必 修 Required | 0200391 | 证券投资学 Portfolio Investment | 40 | 2.5 | | | | 4 |
| | 必 修 Required | 0200272 | 中国经济改革与发展 Economic Reform and Development of China | 40 | 2.5 | | | | 4 |
| 专业核心课程 major-specific core courses | 必 修 Required | 0200401 | 银行业务与管理 Bank Practice and Management | 40 | 2.5 | | | | 5 |
| | 必 修 Required | 0200411 | 保险学 Insurance | 40 | 2.5 | | | | 5 |
| | 必 修 Required | 0200432 | 金融工程学 Financial Engineering | 40 | 2.5 | | | | 5 |
| 实践环节 practical training items | 必 修 Required | 130004a | 毕业论文 Undergraduate Thesis | | 8 | | | | 6 |

# 金融学辅修专业培养计划

## Undergraduate Program for Auxiliary Specialty in Finance and Banking

### 一、培养目标

### Ⅰ. Program objective

金融学第二主修专业培养具备较强的金融学的基本理论基础和掌握分析方法，掌握金融、投资、银行和保险的基本知识和业务技能，能熟练地运用计算机和外语从事有关业务的复合型人才。

The program (Finance and Banking) provides a broad finance and trade education with opportunities to study finance, investment, banking and insurance. Finance theory and application are combined to develop skills and knowledge for finance industry needs.

### 二、学分

### Ⅱ. Credits units

完成学业最低学分要求：26.5

Minimum Course Credits：26.5

其中：

Including：

学科基础课程：16.5 学分

Discipline-related general courses: 16.5

学科专业课程：10 学分

Basic sub-disciplinary courses: 10

### 三、教学进程计划表

### Ⅲ. Course Schedule

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 学科大类基础课程 discipline-related general courses | 必修 Required | 0200642 | 中级微观经济学 Microeconomics | 64 | 4 | | | | 1 |
| | 必修 Required | 1200025 | 会计学 Accounting | 56 | 3.5 | | | | 1 |
| | 必修 Required | 0200652 | 中级宏观经济学 Macroeconomics | 64 | 4 | | | | 2 |
| | 必修 Required | 1200061 | 财政学 Public Finance | 40 | 2.5 | | | | 2 |
| | 必修 Required | 0200231 | 货币银行学 Money and Banking | 40 | 2.5 | | | | 3 |
| 专业核心课程 major-specific core courses | 必修 Required | 0200151 | 国际金融学 International Finance | 40 | 2.5 | | | | 3 |
| | 必修 Required | 0200141 | 国际贸易学 International Trade | 40 | 2.5 | | | | 3 |
| | 必修 Required | 0200391 | 证券投资学 Portfolio Investment | 40 | 2.5 | | | | 4 |
| | 必修 Required | 0200272 | 中国经济改革与发展 Economic Reform and Development of China | 40 | 2.5 | | | | 4 |

# 金融工程专业本科培养计划

# Undergraduate Program for Specialty in Finance Engineering

## 一、培养目标

## Ⅰ. Program objective

金融工程专业培养具备扎实宽广的金融学和金融工程理论基础，具有较高的外语、数学和计算机水平及应用能力，具有设计、实施各种金融工具和交易方案，进行投资风险管理的能力，能在证券与期货公司、财务公司、各类投资与咨询公司、基金管理公司、银行和宏观决策及监管部门从事相关工作的高级专门人才。

The overall objective (Finance Engineering) is to equip students with a broad knowledge and skills of finance and finance engineering, abilities of English, mathematics and information technology, and with skills of designing, and operating many kinds of finance tools and exchange arrangement. Students can manage the risk of investment and are competent to work in security companies, investment companies, banks, fund management company and various business sectors.

## 二、基本规格要求

## Ⅱ. Learning outcomes

1. 掌握经济学、金融学和数量分析基础理论和基本知识；
2. 掌握金融产品开发、定价以及金融风险管理的基本原理和方法；
3. 掌握信息技术基本知识和程序设计基本能力；
4. 外语达到国家四级水平，并具备用英文撰写商务公文的能力；
5. 掌握与本专业相关领域的发展动态，具备综合运用所学知识分析和解决问题的能力。

1. Knowledge and skills of economics, finance and economics analytical techniques;
2. Skills of exploring and pricing finance goods and management for finance work;
3. Skills of information technology;
4. Abilities of business English writing;
5. Understanding its current stage of development;
6. Analytical skills in practical questions.

2. The basic courses of applied mathematics program in mathematics;

3. Ability to read the English documents of the two majors and to communicate with others in English;

4. Skills of using computer to analyze economic model;

5. Skills to search documents and data and abilities to research and practical job.

## 三、培养特色

## Ⅲ. Program highlights

秉承国际化的办学理念，课程设置和人才培养基本与国际接轨。以上专业均采取“厚基础、宽口径”的培养模式，在加强专业基础理论和实务知识教学的同时，十分注重外语、数学、计算机以及科技、人文知识和社会实践能力的训练，保持外语、数学、计算机教学四年不断线；现有 10 多门课程采用英文原版教材，实行双语教学。

We hold up the international spirit of teaching and studying, close to international standard at the setting of courses and educational objectives. Among all of our specialties, we pay special attention to students' basic knowledge and skills , while we emphasize the practices of English, mathematics, information technology and social practice. We keep on teaching of English, mathematics and information technology during the whole 4 years, and apply English version textbook for teaching in over 10 courses.

## 四、主干学科

## Ⅳ. Main Disciplines

经济学

Economics

## 五、学制与学位

## Ⅴ. Program length and degree

学制：四年

Duration: 4 years

授予学位：经济学学士

Degrees Conferred: Bachelor of Economics

## 六、学时与学分

## Ⅵ. Credits hours and units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：160

Minimum Credits of Curricular (Comprising course system and intensified internship practical training)：160

其中，专业基础课程、专业核心课程学分不允许用其他课程学分进行冲抵和替代。

Major-related basic courses and core courses cannot be coverd using credits from other courses in the program.

完成学业最低课外学分要求：5

Minimum Extracurricular Credits：5

1. 课程体系学时与学分

Course credits hours and units

| 课程类别 | | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|---|
| 通识教育基础课程 | | 必修 | 928/54 | 37.5 |
| | | 选修 | 160/10 | 6.9 |
| 学科(大类)基础课程 | | 必修 | 936/58.5 | 40.6 |
| 专业课程 | 专业核心课程 | 必修 | 224/14 | 9.7 |
| | 专业选修课程 | 选修 | 120/7.5 | 5.3 |
| 合计 | | | 2368/144 | 100 |

| Course type | | Required/elective | Hrs/Crs | Percentage (%) |
|---|---|---|---|---|
| General education core curriculum | | Required | 864/54 | 37.5 |
| | | Elective | 160/10 | 6.9 |
| Discipline-related courses | | Required | 936/58.5 | 40.6 |
| Major-specific courses | Coral Courses | Required | 224/14 | 9.7 |
| | elective Courses | Elective | 120/7.5 | 5.3 |
| Total | | | 2368/144 | 100 |

2. 集中性实践教学环节周数与学分

Practicum credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 6.3 |
| 公益劳动 | 必修 | 1/0.5 | 3.1 |
| 专业实习 | 必修 | 5/2.5 | 15.5 |
| 社会实践 | 必修 | 3/1.5 | 9.4 |
| 课程（实验）设计 | 必修 | 3/1.5 | 9.4 |
| 科研训练 | 必修 | 2/1 | 6.3 |
| 毕业设计（论文） | 必修 | 16/8 | 50 |
| 合计 | | 32/16 | 100 |

| Internship & Practical Training | Course Nature | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 6.3 |
| Laboring for Public Benefit | Required | 1/0.5 | 3.1 |
| Professional Social Practice | Required | 5/2.5 | 15.5 |
| Social Practice | Required | 3/1.5 | 9.4 |
| Courses Design | Required | 3/1.5 | 9.4 |
| Scientific Research Training | Required | 2/1 | 6.3 |
| Undergraduate Thesis | Required | 16/8 | 50 |
| Total | | 32/16 | 100 |

3. 课外学分

Extracurricular Credits

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 2 | 英语及计算机考试 | 全国大学英语六级考试 | 获六级证书者 | 2 |
| | | 托福、GRE 考试 | 达到相应水平（需认定） | 2 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |
| 3 | 竞赛 | 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 4 | 论文 | 在全国性刊物发表论文 | 每篇论文 | 2~3 |
| 5 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1~3 |
| 6 | 实验 | 视创新情况 | 每项 | 1~3 |

注：参加校体育运动会获第一名、第二名者与校级一等奖等同，获第三名至第五名者与校级二等奖等同，获第六至第八名者与校级三等奖等同。

| No. | Activities | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Community engagement | Submitting a report and passing the oral defense | | 1 |
| | | Individuals awarded “actice participant” /teams awarded “excellent performance” by HUST or Hubei youth league committee | | 2 |
| 2 | Qualifications | CET-6 | Certificate | 2 |
| | | TOEFL, GRE | Certificate | 2 |
| | | National Computer Rank Examination | Certificate(Grade 1/2) | 2 |
| | | Qualifications for computer and software technology proficiency | programmer | 2 |
| | | | Senior Programmer | 3 |
| | | | System Analyst | 4 |
| 3 | Competitions | University Level | first prize | 3 |
| | | | second prize | 2 |
| | | | third prize | 1 |
| | | Provincial Level | first prize | 4 |
| | | | second prize | 3 |
| | | | third prize | 2 |
| | | National Level | first prize | 6 |
| | | | second prize | 4 |
| | | | third prize | 3 |
| 4 | Academic papers | Published in national-level journals | Each paper | 2~3 |
| 5 | Research programs | Contribution and research capability | Each program | 1~3 |
| 6 | Experiments | Innovation capacity | Each experiment | 1~3 |

Note: In HUST Sports Meeting, the first and the second prize, the third to the fifth prize, and the sixth prize to the eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## Ⅶ. Main Courses

经济学原理 Principle of Economics、微观经济学 Micro-Economics、宏观经济学 Macro-Economics、会计学 Accounting、统计学 Statistics、财政学 Public Finance、计量经济学 Econometrics、管理学原理 Management、货币银行学 Money and Banking、证券投资学 Portfolio Investment、国际金融学 International Finance、国际贸易学 International Trade、保险学 Insurance

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Practicum module (experiments included)

社会调查 Social Investigation、课程大型作业 Course Project、专业实习和毕业实习 Professional Practice and Undergraduate Practice

## 九、教学进程计划表

## Ⅸ. Courses Schedule

院（系）：经济学院　　专业：金融工程

School(Department): School of Economics　　Specialty: Finance Engineering

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 basic courses in general education | 必修 required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必修 required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必修 required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必修 required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必修 required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必修 required | 0100741 | 形势与政策 Current Affairs and Policy | 32 | 2 | 14 | | | 1-6 |
| | 必修 required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | 必修 required | 0508453 | 综合英语（一） College English （Ⅰ） | 56 | 3.5 | | | | 1 |
| | 必修 required | 0508463 | 综合英语（二） College English （Ⅱ） | 56 | 3.5 | | | | 2 |
| | 必修 required | 0400111 | 大学体育（一） Physical Education(Ⅰ) | 32 | 1 | | | | 1 |
| | 必修 required | 0400121 | 大学体育（二） Physical Education(Ⅱ) | 32 | 1 | | | | 2 |
| | 必修 required | 0400131 | 大学体育（三） Physical Education(Ⅲ) | 32 | 1 | | | | 3 |
| | 必修 required | 0400141 | 大学体育（四） Physical Education(Ⅳ) | 32 | 1 | | | | 4 |
| | 必修 required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 1 |
| | 必修 required | 0827791 | 计算机及程序设计基础（VB/C++） Advanced Programming Language (C) | 48 | 3 | | | 20 | 1 |
| | 必修 required | 0833174 | 数据库技术及应用 Database System | 32 | 2 | | | 8 | 2 |
| | 必修 required | 0703661 | 数学分析（一） Mathematical Analysis (Ⅰ) | 80 | 5 | | | | 1 |
| | 必修 required | 0703672 | 数学分析（二） Mathematical Analysis (Ⅱ) | 88 | 5.5 | | | | 2 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必修 required | 0703682 | 数学分析（三） Mathematical Analysis (III) | 88 | 5.5 | | | | 3 |
| | 必修 required | 0700054 | 线性代数 Linear Algebra | 40 | 2.5 | | | | 2 |
| | 必修 required | 0700063 | 概率论与数理统计（三） Probability and Mathematics Statistics（III) | 40 | 2.5 | | | | 3 |
| | | | 人文社科类选修课程 Restricted Electives in the Humanities | 160 | 10 | | | | |
| 学科大类基础课程 basic courses in general discipline | 必修 required | 0400028 | 经济学科（专业）概论 Introduction to Discipline | 16 | 1 | | | | 1 |
| | 必修 required | 0100044 | 政治经济学原理 Marxist Political Economy | 48 | 3 | | | | 1 |
| | 必修 required | 0200191 | 经济学原理 The principle of Economics | 64 | 4 | | | | 1 |
| | 必修 required | 0200642 | 中级微观经济学 Microeconomics | 64 | 4 | | | | 2 |
| | 必修 required | 1200025 | 会计学 Accounting | 56 | 3.5 | | | | 3 |
| | 必修 required | 0200652 | 中级宏观经济学 Macroeconomics | 64 | 4 | | | | 3 |
| | 必修 required | 0700092 | 统计学 Statistics | 48 | 3 | | | | 3 |
| | 必修 required | 0200091 | 计量经济学 Econometrics | 64 | 4 | | | | 4 |
| | 必修 required | 0200231 | 货币银行学 Money and Banking | 48 | 3 | | | | 4 |
| | 必修 required | 1200061 | 财政学 Public Finance | 40 | 2.5 | | | | 4 |
| | 必修 required | 0201041 | 经济学综合实验 Comprehensive Experiments of Economics | 64 | 4 | | | | 3-7 |
| | 必修 required | 0200801 | 经济调查方法 Economic Survey Method | 24 | 1.5 | | | | 3 |
| | 必修 required | 0200222 | 博弈论 Game Theory | 40 | 2.5 | 8 | | | 4 |
| | 必修 required | 0200151 | 国际金融学 International Finance | 48 | 3 | 8 | | | 5 |
| | 必修 required | 0200141 | 国际贸易学 International Trade | 48 | 3 | 8 | | | 5 |
| | 必修 required | 1200052 | 财务管理 Financial Management | 40 | 2.5 | 8 | | | 5 |
| | 必修 required | 0200662 | 中级金融理论 | 40 | 2.5 | 8 | | | 6 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必修 required | 1200231 | 管理学原理 Management | 40 | 2.5 | 8 | | | 5 |
| | 必修 required | 0200272 | 中国经济改革与发展 Economic Reform and Development of China | 40 | 2.5 | 8 | | | 6 |
| | 必修 required | 0200391 | 证券投资学 Portfolio Investment | 40 | 2.5 | 8 | | | 6 |
| 专业核心课程 core courses in specialty | 必修 required | 0700301 | 随机过程 Stochastic Processes | 48 | 3 | | | | 5 |
| | 必修 required | 0200432 | 金融工程学 Financial Engineering | 40 | 2.5 | | | | 6 |
| | 必修 required | 0200737 | 期货、期权与衍生证券 Future, Option & derivative Securities | 32 | 2 | | | | 6 |
| | 必修 required | 0200891 | 公司金融 Corporation Finance | 40 | 2.5 | | | | 6 |
| | 必修 required | 0200401 | 银行业务与管理 Bank Practice and Management | 32 | 2 | | | | 5 |
| | 必修 required | 0200791 | 固定收益证券 | 32 | 2 | | | | 7 |
| 专业选修课程 specialty-oriented courses | 选修 Elective | 0200421 | 财务报表分析 Financial Report Form Analysis | 32 | 2 | | | | 4 |
| | 选修 Elective | 0200871 | 金融风险管理 Financial Risk Management | 32 | 2 | | | | 6 |
| | 选修 Elective | 0200411 | 保险学 Insurance | 40 | 2.5 | | | | 6 |
| | 选修 Elective | 0209231 | 互联网金融 | 16 | 1 | | | | 7 |
| | 选修 Elective | 0209241 | 公司金融案例分析 | 16 | 1 | | | | 7 |
| | 选修 Elective | 0200881 | 精算学 Actuarial Science | 32 | 2 | | | | 7 |
| | | | 本院其它专业的选修课程 Restricted Elective in Other Specialties in the School | | | | | | |
| 实践环节 practical training items | 必修 required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必修 required | 1300024 | 公益劳动 Laboring for Public Benefit | 1w | 0.5 | | | | 8 |
| | 必修 required | 130005a | 专业实习 Professional Practice | 5w | 2.5 | | | | 6 |
| | 必修 required | 1300516 | 社会实践 Social Practice | 3w | 1.5 | | | | 4 |
| | 必修 required | 130044c | 科研训练（经济学研究方法训练） Science Research Training | 2w | 1 | | | | 5 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必修 required | 1303853 | 课程（实验）设计（经济论文写作） Courses Design | 3w | 1.5 | | | | 7 |
| | 必修 required | 130004a | 毕业论文（论文） Undergraduate Thesis | 16w | 8 | | | | 8 |

注：1、经济学综合实验 64 学时由以下课程组成：统计学 8 学时，计量经济学 18 学时，证券投资学 10 学时，国际贸易实务 10 学时，财务管理 8 学时，电子商务 10 学时。

# 经济统计学专业本科培养计划

# Undergraduate Program for Specialty in Economic Statistics

## 一、培养目标

## Ⅰ. Program objective

经济统计学专业培养具备扎实宽广的现代经济学和统计学理论基础，掌握经济统计与调查技术与方法，具有较高的数学、计算机和外语水平及应用能力，能在政府机构、经济管理部门、各类企业以及研究部门从事相关工作的高级专门人才。

The program (the field of Economics & Statistics) provides students with a firm grounding in the principles of economics and statistic, abilities of associated analytical techniques, English, mathematics and information technology. Students can do business, management and research work in business sector, research sector and companies.

## 二、基本规格要求

## Ⅱ. Learning outcomes

1. 掌握经济学的基本理论和方法，具有扎实的数学基础；
2. 掌握统计学的基本理论、基础知识和方法，具有采集数据和处理调查数据的基本能力；
3. 具有较强的计算机操作和运用能力，以及较强的统计计算能力；
4. 了解统计学理论与方法的最新发展动态及其应用前景；
5. 能够熟练地掌握一门外语、具有听、说、读、写、译的基本能力；
6. 掌握中外文文献检索、资料查询的基本方法，具有较强的科学研究和实际工作能力。

1. Knowledge and skills in economics and mathematics;
2. Skills of statistic and collecting, dealing with data;
3. A sound knowledge of information technology;
4. Understanding its current stage of development;
5. Abilities of using English language;
6. Documents and searching skills;
7. Research and independent working skills.

## 三、培养特色

## Ⅲ. Program highlights

秉承国际化的办学理念，课程设置和人才培养基本与国际接轨。以上专业均采取“厚基础、宽口径”的培养模式，在加强专业基础理论和实务知识教学的同时，十分注重外语、数学、计算机以及科技、人文知识和社会实践能力的训练，保持外语、数学、计算机教学四年不断线；现有 10 多门课程采用英文原版教材，实行双语教学。

We hold up the international spirit of teaching and studying, close to international standard at the setting of courses and educational objectives. Among all of our specialties, we pay special attention to students' basic knowledge and skills , while we emphasize the practices of English, mathematics, information technology and social practice. We keep on teaching of English, mathematics and information technology during the whole 4 years, and apply English version textbook for teaching in over 10 courses.

## 四、主干学科

## Ⅳ. Main Disciplines

经济学

Economics

## 五、学制与学位

## Ⅴ. Program length and degree

学制：四年

Duration: 4 years

授予学位：经济学学士

Degrees Conferred: Bachelor of Economics

## 六、学时与学分

## Ⅵ. Credits hours and units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：160

Minimum Credits of Curricular (Comprising course system and intensified internship practical training)：160

其中，专业基础课程、专业核心课程学分不允许用其他课程学分进行冲抵和替代。

Major-related basic courses and core courses cannot be coverd using credits from other courses in the program.

完成学业最低课外学分要求：5

Minimum Extracurricular Credits：5

1. 课程体系学时与学分

Course credits hours and units

| 课程类别 | | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|---|
| 通识教育基础课程 | | 必修 | 928/54 | 37.5 |
| | | 选修 | 160/10 | 6.9 |
| 学科(大类）基础课程 | | 必修 | 936/58.5 | 40.6 |
| 专业课程 | 专业核心课程 | 必修 | 240/15 | 10.4 |
| | 专业选修课程 | 选修 | 104/6.5 | 4.6 |
| 合计 | | | 2368/144 | 100 |

| Course type | | Required/elective | Hrs/Crs | Percentage (%) |
|---|---|---|---|---|
| General education core curriculum | | Required | 864/54 | 37.5 |
| | | Elective | 160/10 | 6.9 |
| Discipline-related courses | | Required | 936/58.5 | 40.6 |
| Major-specific courses | Major-specific core courses | Required | 240/15 | 10.4 |
| | Speciaty-Oriented Courses | Elective | 104/6.5 | 4.6 |
| Total | | | 2368/144 | 100 |

2. 集中性实践教学环节周数与学分

Practicum credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 6.3 |
| 公益劳动 | 必修 | 1/0.5 | 3.1 |
| 专业实习 | 必修 | 5/2.5 | 15.5 |

续表

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 社会实践 | 必修 | 3/1.5 | 9.4 |
| 课程（实验）设计 | 必修 | 3/1.5 | 9.4 |
| 科研训练 | 必修 | 2/1 | 6.3 |
| 毕业设计（论文） | 必修 | 16/8 | 50 |
| 合计 | | 32/16 | 100 |

| Course title | Course Nature | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training(two weeks) | Required | 2/1 | 6.3 |
| Laboring for public benefit | Required | 1/0.5 | 3.1 |
| Professional Social Practice | Required | 5/2.5 | 15.5 |
| Social Practice | Required | 3/1.5 | 9.4 |
| Courses Design | Required | 3/1.5 | 9.4 |
| Scientific Research Training | Required | 2/1 | 6.3 |
| Undergraduate Thesis | Required | 16/8 | 50 |
| Total | | 32/16 | 100 |

3. 课外学分

Extracurricular Credits

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 2 | 英语及计算机考试 | 全国大学英语六级考试 | 获六级证书者 | 2 |
| | | 托福、GRE 考试 | 达到相应水平（需认定） | 2 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |
| 3 | 竞赛 | 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| 3 | 竞赛 | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 4 | 论文 | 在全国性刊物发表论文 | 每篇论文 | 2~3 |
| 5 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1~3 |
| 6 | 实验 | 视创新情况 | 每项 | 1~3 |

注：参加校体育运动会获第一名、第二名者与校级一等奖等同，获第三名至第五名者与校级二等奖等同，获第六至第八名者与校级三等奖等同。

| No. | Activities | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Community engagement | Submitting a report and passing the oral defense | | 1 |
| | | Individuals awarded “actice participant” /teams awarded “excellent performance” by HUST or Hubei youth league committee | | 2 |
| 2 | Qualifications | CET-6 | Certificate | 2 |
| | | CJT/TFU/PHSD-4 | Certificate | 2 |
| | | National Computer Rank Examination | Certificate(Grade 1/2) | 2 |
| | | Qualifications for computer and software technology proficiency | programmer | 2 |
| | | | Senior Programmer | 3 |
| | | | System Analyst | 4 |
| 3 | Competitions | University Level | first prize | 3 |
| | | | second prize | 2 |
| | | | third prize | 1 |
| | | Provincial Level | first prize | 4 |
| | | | second prize | 3 |
| | | | third prize | 2 |
| | | National Level | first prize | 6 |
| | | | second prize | 4 |
| | | | third prize | 3 |
| 4 | Academic papers | Published in national-level journals | Each paper | 2~3 |
| 5 | Research programs | Contribution and research capability | Each program | 1~3 |
| 6 | Experiments | Innovation capacity | Each experiment | 1~3 |

Note: In HUST Sports Meeting, the first and the second prize, the third to the fifth prize, and the sixth prize to the eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## Ⅶ. Main Courses

经济学原理 Principle of Economics、微观经济学 Micro-Economics、宏观经济学 Macro-Economics、会计学 Accounting、统计学 Statistics、财政学 Public Finance、计量经济学 Econometrics、管理学原理 Management、货币银行学 Money and Banking、证券投资学 Portfolio Investment、国际金融学 International Finance、国际贸易学 International Trade

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Practicum module (experiments included)

社会调查 Social Investigation、课程大型作业 Course Project、专业实习和毕业实习 Professional Practice and Undergraduate Practice

## 九、教学进程计划表

## Ⅸ. Courses Schedule

院（系）：经济学院　　专业：经济统计学

School(Department): School of Economics　　Specialty: Statistics

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程basic courses in general education | 必修 required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必修 required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必修 required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必修 required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必修 required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必修 required | 0100741 | 形势与政策 Current Affairs and Policy | 32 | 2 | 14 | | | 1-6 |
| | 必修 required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | 必修 required | 0508453 | 综合英语（一） College English （Ⅰ） | 56 | 3.5 | | | | 1 |
| | 必修 required | 0508463 | 综合英语（二） College English （Ⅱ） | 56 | 3.5 | | | | 2 |
| | 必修 required | 0400111 | 大学体育（一） Physical Education(Ⅰ) | 32 | 1 | | | | 1 |
| | 必修 required | 0400121 | 大学体育（二） Physical Education(Ⅱ) | 32 | 1 | | | | 2 |
| | 必修 required | 0400131 | 大学体育（三） Physical Education(Ⅲ) | 32 | 1 | | | | 3 |
| | 必修 required | 0400141 | 大学体育（四） Physical Education(Ⅳ) | 32 | 1 | | | | 4 |
| | 必修 required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 1 |
| | 必修 required | 0827791 | 计算机及程序设计基础（VB/C++） Advanced Programming Language (C) | 48 | 3 | | | 20 | 1 |
| | 必修 required | 0833174 | 数据库技术及应用 Database System | 32 | 2 | | | 8 | 2 |
| | 必修 required | 0703661 | 数学分析（一） Mathematical Analysis (Ⅰ) | 80 | 5 | | | | 1 |
| | 必修 required | 0703672 | 数学分析（二） Mathematical Analysis (Ⅱ) | 88 | 5.5 | | | | 2 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必修 required | 0703682 | 数学分析（三） Mathematical Analysis (III) | 88 | 5.5 | | | | 3 |
| | 必修 required | 0700054 | 线性代数 Linear Algebra | 40 | 2.5 | | | | 2 |
| | 必修 required | 0700063 | 概率论与数理统计（三） Probability and Mathematics Statistics（III) | 40 | 2.5 | | | | 3 |
| | | | 人文社科类选修课程 Restricted Electives in the Humanities | 160 | 10 | | | | |
| 学科大类基础课程 basic courses in general discipline | 必修 required | 0400028 | 经济学科（专业）概论 Introduction to Discipline | 16 | 1 | | | | 1 |
| | 必修 required | 0100044 | 政治经济学原理 Marxist Political Economy | 48 | 3 | | | | 1 |
| | 必修 required | 0200191 | 经济学原理 The principle of Economics | 64 | 4 | | | | 1 |
| | 必修 required | 0200642 | 中级微观经济学 Microeconomics | 64 | 4 | | | | 2 |
| | 必修 required | 1200025 | 会计学 Accounting | 56 | 3.5 | | | | 3 |
| | 必修 required | 0200652 | 中级宏观经济学 Macroeconomics | 64 | 4 | | | | 3 |
| | 必修 required | 0700092 | 统计学 Statistics | 48 | 3 | | | | 3 |
| | 必修 required | 0200091 | 计量经济学 Econometrics | 64 | 4 | | | | 4 |
| | 必修 required | 0200231 | 货币银行学 Money and Banking | 48 | 3 | | | | 4 |
| | 必修 required | 1200061 | 财政学 Public Finance | 40 | 2.5 | | | | 4 |
| | 必修 required | 0201041 | 经济学综合实验 Comprehensive Experiments of Economics | 64 | 4 | | | | 3-7 |
| | 必修 required | 0200801 | 经济调查方法 Economic Survey Method | 24 | 1.5 | | | | 3 |
| | 必修 required | 0200222 | 博弈论 Game Theory | 40 | 2.5 | 8 | | | 4 |
| | 必修 required | 0200151 | 国际金融学 International Finance | 48 | 3 | 8 | | | 5 |
| | 必修 required | 0200141 | 国际贸易学 International Trade | 48 | 3 | 8 | | | 5 |
| | 必修 required | 1200231 | 管理学原理 Management | 40 | 2.5 | 8 | | | 5 |
| | 必修 required | 1200052 | 财务管理 Financial Management | 40 | 2.5 | 8 | | | 5 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必修 required | 0200312 | 世界经济 World Economy | 40 | 2.5 | 8 | | | 5 |
| | 必修 required | 0200272 | 中国经济改革与发展 Economic Reform and Development of China | 40 | 2.5 | 8 | | | 6 |
| | 必修 required | 0200391 | 证券投资学 Portfolio Investment | 40 | 2.5 | 8 | | | 6 |
| 专业核心课程 core courses in specialty | 必修 required | 0700301 | 随机过程 Stochastic Processes | 48 | 3 | | | | 5 |
| | 必修 required | 0200131 | 高级计量经济学 Advanced Econometrics | 64 | 4 | | | | 5 |
| | 必修 required | 0701771 | 时间序列分析 Time Series Analysis | 48 | 3 | | | 8 | 6 |
| | 必修 required | 0800491 | 抽样方法 Sampling Techniques | 40 | 2.5 | | | | 6 |
| | 必修 required | 0200911 | 经济预测与决策 Economical Forecast and Decision | 40 | 2.5 | | | 8 | 7 |
| 专业选修课程 specialty-oriented courses | 选修 Elective | 0200921 | 国民经济统计 National Economy Statistics | 40 | 2.5 | | | | 6 |
| | 选修 Elective | 0200931 | 企业统计 Business Statistics | 32 | 2 | | | | 6 |
| | 选修 Elective | 0200941 | 金融统计 Financial Statistics | 32 | 2 | | | | 7 |
| | 选修 Elective | 0200881 | 精算学 Actuarial Science | 32 | 2 | | | | 7 |
| | | | 本院其它专业的选修课程 Restricted Elective in Other Specialties in the School | | | | | | |
| 实践环节 practical training items | 必修 required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必修 required | 1300024 | 公益劳动 Laboring for Public Benefit | 1w | 0.5 | | | | 8 |
| | 必修 required | 130005a | 专业实习 Professional Practice | 5w | 2.5 | | | | 6 |
| | 必修 required | 1300516 | 社会实践 Social Practice | 3w | 1.5 | | | | 4 |
| | 必修 required | 130044c | 科研训练（经济学研究方法训练） Science Research Training | 2w | 1 | | | | 5 |
| | 必修 required | 1303853 | 课程（实验）设计（经济论文写作） Courses Design | 3w | 1.5 | | | | 7 |
| | 必修 required | 130004a | 毕业论文（论文） Undergraduate Thesis | 16w | 8 | | | | 8 |

注：1、经济学综合实验 64 学时由以下课程组成：统计学 8 学时，计量经济学 18 学时，证券投资学 10 学时，国际贸易实务 10 学时，财务管理 8 学时，电子商务 10 学时。

# 国际商务+英语专业本科培养计划

# Undergraduate Program for Specialty in English and International Business

## 一、培养目标

## Ⅰ. Educational Objectives

国际商务+英语（双学位）专业培养具备扎实的国际经济、国际商务管理理论基础，掌握国国际经济、国际商务管理的基本知识与基本技能，熟悉包括 WTO 在内的通行的国际商务规则和惯例，有较强的国际商务运作能力，熟练掌握英语的听、说、阅、写、译等技能，运用计算机处理国际商务业务，能在涉外经济贸易部门、外资企业、跨国公司及政府经贸机构从事实际业务、管理、理论研究工作的国际化复合型高级专门人才。

Aiming at preparing students for high quality education, the program produces internationalized, compound and specialized students with the knowledge and skills of international economics and international business administration, with the comprehensive mastery of international business rules and customs including those of WTO, with strong ability international business operation, with the acquisition of English listening, speaking, reading, writing and translation and interpretation skills, with the skills of computer for business handling, with the strong ability of conducting international business operation, management, communication and research in various kinds of corporations concerning foreign affairs, governmental departments, investing corporations, etc.

## 二、基本规格要求

## Ⅱ. Skills Profile

国际商务与商务英语专业（双学位）毕业生应获得以下几方面的知识与能力；

1. 掌握马克思主义经济学、西方经济学、国际经济学、国际商务管理的基本理论和方法；

2. 能运用计量、统计、会计的方法进行分析和研究；能运用计算机从事国际商务工作；

3. 了解中国及其他主要国家和地区的经济发展状况及其商务政策、法规；

4. 了解国际商务理论与实践最新的发展动态；

5. 学生应具有坚实的英语语言基础和较熟练的听、说、读、写、译的能力，对主要英语国家社会和文化有较广泛的了解。

6. 掌握中外文文献检索、资料查询的基本方法，具有较强的科学研究和实际工作能力。

By the end of the program, students will be able to

1. Understand key concepts and techniques in economics, international economics and international business administration;

2. Apply computation, statistic and accounting skills to do analysis and research; utilize computer for business handling;

3. Acquire the economic situation and trade policies of China, developed countries and territories;

4. Understand the trend and current stage of development of international economics and trade theories;

5. Master English language, including listening, speaking, reading, writing and translation and interpretation skills, understand broadly the society and culture of major English spoken countries.

6. Master basic means of literature and informationsearch and acquire a strongabilityofscientific

research and practical work.

## 三、培养特色

## Ⅲ. Program Features

秉承国际化的办学理念，课程设置和人才培养基本与国际接轨。采取“厚基础、宽口径”的培养模式，在加强专业基础理论和实务知识教学的同时，十分注重外语、数学、计算机以及科技、人文知识和社会实践能力的训练，保持外语、数学、计算机教学四年不断线；现有 10 多门课程采用英文原版教材，实行双语教学。形成人才培养的国际化、复合型、应用型特色。

We hold up the international spirit of teaching and studying, close to international standard at the setting of courses and educational objectives. We pay special attention to students'basic knowledge and skills , while we emphasize the practices of English, mathematics, information technology and social practice. We keep on teaching of English, mathematics and information technology during the whole 4 years, and adopt English version textbook for teaching in over 10 courses. The program produces internationalized, compound, and practical students.

## 四、主干学科

## Ⅳ. Major Disciplines

经济学，管理学，英语

Economics, Management, English

## 五、学制与学位

## Ⅴ. Length of Schooling and Degree

学制：四年

Duration: 4 years

授予学位：管理学学士，文学学士

Degrees Conferred: Bachelor of management, and Bachelor of Arts

## 六、学时与学分

## Ⅵ. Hours/Credits

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：191

Minimum Credits of Curricular (Comprising course system and intensified internship practical training)：191

完成学业最低课外学分要求：5

Minimum Extracurricular Credits：5

1. 课程体系学时与学分

Hours/Credits of Course System

| 课程类别 | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|
| 通识教育基础课程 | 必修 | 640/36 | 22.3<br>1 |
| | 选修 | 128/8 | 4.46 |
| 学科大类基础课程 | 必修 | 1576/98.5 | 55 |
| 专业核心课程 | 必修 | 520/32.5 | 18.1 |
| 合计 | | 2864/175 | 100 |

| Course Classified | Course Nature | Hrs/Crs | Percentage (%) |
|---|---|---|---|
| Basic Courses in General Education | Required | 640/36 | 22.3 |
| | Elective | 128/8 | 4.46 |
| Basic Courses in General Discipline | Required | 1576/98.5 | 55 |

continue

| Course Classified | Course Nature | Hrs/Crs | Percentage (%) |
|---|---|---|---|
| Coral Courses in Specialty | Required | 520/32.5 | 18.1 |
| Total | | 2864/175 | 100 |

2. 集中性实践教学环节周数与学分

Weeks/Credits of Intensified Internship and Practical Training

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 6.3 |
| 公益劳动 | 必修 | 1/0.5 | 3.1 |
| 专业实习 | 必修 | 5/2.5 | 15.5 |
| 社会实践 | 必修 | 3/1.5 | 9.4 |
| 课程（实验）设计 | 必修 | 3/1.5 | 9.4 |
| 科研训练 | 必修 | 2/1 | 6.3 |
| 毕业设计（论文） | 必修 | 16/8 | 50 |
| 合计 | | 32/16 | 100 |

| Internship & Practical Training | Course Nature | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/2 | 6.3 |
| Laboring for Public Benefit | Required | 1/0.5 | 3.1 |
| Professional Social Practice | Required | 4/2 | 15.5 |
| Social Practice | Required | 3/3 | 9.4 |
| Courses Design | Required | 3/3 | 9.4 |
| Scientific Research Training | Required | 1/0.5 | 6.3 |
| Undergraduate Thesis | Required | 16/8 | 50 |
| Total | | 32/16 | 100 |

3. 课外学分

Extracurricular Credits/

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 2 | 英语及计算机考试 | 全国大学英语六级考试 | 获六级证书者 | 2 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |
| 3 | 竞赛 | 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 4 | 论文 | 在全国性刊物发表论文 | 每篇论文 | 2~3 |
| 5 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1~3 |
| 6 | 实验 | 视创新情况 | 每项 | 1~3 |

注：参加校体育运动会获第一名、第二名者与校级一等奖等同，获第三名至第五名者与校级二等奖等同，获第六至第八名者与校级三等奖等同。

| No. | Extracurricular Activities and Social Practice | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Activities of Social Practice | Submit report and pass oral defense | | 1 |
| | | Entitled as Activist by the Communist Youth League of HUST or Hubei Province;<br>Membership of the group which is entitled as Excellent Social Practice Group by the Communist Youth League of HUST or Hubei Province | | 2 |
| 2 | Examinations in English and Computer | CET-6 | Students whose Band-6 exam scores accord our requirements | 2 |
| | | National Computer Rank Examination | Win certificate of Band-2 or higher | 2 |
| | | National Computer Software Qualification | Win certificate of programmer | 2 |
| | | | Win certificate of Advanced Programmer | 3 |
| | | | Win certificate of System Analyst | 4 |
| 3 | Competitions | University Level | Win first prize | 3 |
| | | | Win second prize | 2 |
| | | | Win third prize | 1 |
| | | Provincial Level | Win first prize | 4 |
| | | | Win second prize | 3 |
| | | | Win third prize | 2 |
| | | National Level | Win first prize | 6 |
| | | | Win second prize | 4 |
| | | | Win third prize | 3 |
| 4 | Thesis | Those whose thesis appears in national publications | Per piece | 2~3 |
| 5 | Scientific Research | Depending on both the time spent in and ability demonstrated in scientific research project | Each item | 1~3 |
| 6 | Experiments | Depending on innovative extent | Each item | 1~3 |

Note: In HUST Sports Meeting, the first and the second prize, the third to the fifth prize, and the sixth prize to the eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## Ⅶ. Main Courses

经济学原理 Principle of Economics、微观经济学 Micro-Economics、宏观经济学 Macro-Economics、国际企业管理学 Enterprise Management、国际金融学 International Finance、国际贸易学 International Trade、国际投资学 International Investment、保险学 Insurance，国际商务 International Business、国际市场营销 International Marketing、英语精读 Intensive Reading、英语听力 English Listening、英语泛读 Extensive Reading、英语口语 Oral English、英语基础写作 English Writing、实用翻译 Practical Translation、口译基础 Interpretation Foundation、交替传译 Consecutive Interpretation

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Main Internship and Practical Training (Including experiments)

社会调查 Social Investigation、课程大型作业 Course Project、专业实习和毕业实习 Professional Practice and Undergraduate Practice、翻译实习 Translation Internship

## 九、教学进程计划表

## Ⅸ. Course Schedule

院（系）：经济学院　　专业：国际商务+英语）

School (Department): School of Foreign Languages　　Specialty: International Business + English

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程basic courses in general education | 必修 required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必修 required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必修 required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必修 required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必修 required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必修 required | 0100741 | 形势与政策 Situation and Policy | 32 | 2 | 14 | | | 1-6 |
| | 必修 required | 0700013 | 微积分（三） Calculus (Ⅲ) | 80 | 5 | | | | 1 |
| | 必修 required | 0700054 | 线性代数 Linear Algebra | 40 | 2.5 | | | | 2 |
| | 必修 required | 0705941 | 概率论与数理统计 Probability and Mathematics Statistics | 40 | 2.5 | | | | 3 |
| | 必修 required | 0827781 | 计算机与程序设计基础（C++） C++ Programming | 48 | 3 | | | | 1 |
| | 必修 required | 0833174 | 数据库技术及应用 Database System | 32 | 2 | | | 8 | 2 |
| | 必修 required | 0510071 | 中国语文 Chinese | 32 | 2 | | | | 2 |
| | 必修 required | 0400111 | 大学体育（一） Physical Education (Ⅰ) | 32 | 1 | | | | 1 |
| | 必修 required | 0400121 | 大学体育（二） Physical Education (Ⅱ) | 32 | 1 | | | | 2 |
| | 必修 required | 0400131 | 大学体育（三） Physical Education (Ⅲ) | 32 | 1 | | | | 3 |
| | 必修 required | 0400141 | 大学体育（四） Physical Education (Ⅳ) | 32 | 1 | | | | 4 |
| | 必修 required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 1 |
| | | | 自然科学类选修课程 Electives in Liberal Arts and Natural Sciences | 128 | 8 | | | | 1-8 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 学科大类基础课程 basic courses in general discipline | 必修 required | 1201811 | 管理学原理 The Principle of Management | 40 | 2.5 | | | | 1 |
| | 必修 required | 0200194 | 经济学原理 The principle of Economics | 40 | 2.5 | | | | 1 |
| | 必修 required | 0200642 | 中级微观经济学 Intermediate Microeconomics | 64 | 4 | | | | 2 |
| | 必修 required | 0200652 | 中级宏观经济学 Intermediate Macroeconomics | 64 | 4 | | | | 3 |
| | 必修 required | 0512341 | （国际）会计学 International Accounting | 56 | 3.5 | | | | 3 |
| | 必修 required | 0700092 | 统计学 Statistics | 48 | 3 | | | | 4 |
| | 必修 required | 0200091 | 计量经济学 Econometrics | 64 | 4 | | | | 4 |
| | 必修 required | 0200232 | 货币银行学 Money and Banking | 40 | 2.5 | | | | 4 |
| | 必修 required | 0511141 | 英语精读（一） Intensive Reading（I） | 64 | 4 | | | | 1 |
| | 必修 required | 0511151 | 英语精读（二） Intensive Reading（II） | 64 | 4 | | | | 2 |
| | 必修 required | 0511161 | 英语精读（三） Intensive Reading（III） | 64 | 4 | | | | 3 |
| | 必修 required | 0508491 | 高级英语（一） Advanced English（I） | 64 | 4 | | | | 4 |
| | 必修 required | 0508511 | 高级英语（二） Advanced English（II） | 64 | 4 | | | | 5 |
| | 必修 required | 0501981 | 英语语音 English Phonetics（I） | 24 | 1.5 | | | | 1 |
| | 必修 required | 0508543 | 英语听力（一） English Listening （I） | 40 | 2.5 | | | | 1 |
| | 必修 required | 0508553 | 英语听力（二） English Listening （II） | 40 | 2.5 | | | | 2 |
| | 必修 required | 0508563 | 英语听力（三） English Listening （III） | 40 | 2.5 | | | | 3 |
| | 必修 required | 0508573 | 英语听力（四） English Listening （IV） | 40 | 2.5 | | | | 4 |
| | 必修 required | 0512071 | 英国文化概况 Introduction to British Culture | 32 | 2 | | | | 3 |
| | 必修 required | 0512081 | 美国文化概况 Introduction to American Culture | 32 | 2 | | | | 4 |
| | 必修 required | 0512101 | 英国历史 British History | 32 | 2 | | | | 3 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 学科大类基础课程 basic courses in general discipline | 必修 required | 0512111 | 美国历史 American History | 32 | 2 | | | | 4 |
| | 必修 required | 0509581 | 英语基础写作 English Writing （I） | 24 | 1.5 | | | | 2 |
| | 必修 required | 0509591 | 英语中级写作 English Writing | 24 | 1.5 | | | | 3 |
| | 必修 required | 0545472 | 商务英语阅读 Business English Reading | 24 | 1.5 | | | | 4 |
| | 必修 required | 0511321 | 英语日常会话（一） Oral English （I） | 32 | 2 | | | | 1 |
| | 必修 required | 0511331 | 英语日常会话（二） Oral English （II） | 32 | 2 | | | | 2 |
| | 必修 required | 0511191 | 英语演讲与辩论（一） Oral English （III） | 32 | 2 | | | | 3 |
| | 必修 required | 0511201 | 英语演讲与辩论（二） Oral English （IV） | 32 | 2 | | | | 4 |
| | 必修 required | 0201141 | 国际商务 International Business | 40 | 2.5 | | | | 2 |
| | 必修 required | 0200153 | 国际金融学 International Finance | 40 | 2.5 | | | | 5 |
| | 必修 required | 0200142 | 国际贸易学 International Trade | 40 | 2.5 | | | | 5 |
| | 必修 required | 0200341 | 国际商法 International Business Law | 40 | 2.5 | | | | 5 |
| | 必修 required | 1200052 | 财务管理 Financial Management | 40 | 2.5 | | | | 6 |
| | 必修 required | 0503602 | 英汉翻译 English-Chinese Translation | 32 | 2 | | | | 5 |
| | 必修 required | 0508681 | 汉英翻译 Chinese-English Translation | 32 | 2 | | | | 6 |
| | 必修 required | 0504861 | 基础口译 Fundamental Interpretation | 32 | 2 | | | | 5 |
| | 必修 required | 0508691 | 英美影视与文化 （一） English Movies and Culture （I） | 16 | 1 | | | | 1 |
| | 必修 required | 0508711 | 英美影视与文化 （二） English Movies and Culture （II） | 16 | 1 | | | | 2 |
| | 必修 required | 0200322 | 国际贸易实务 International Trade Practice | 48 | 3 | | | | 5 |
| | 必修 required | 0200332 | 国际投资学 International Investments | 40 | 2.5 | | | | 5 |
| | 必修 required | 1200011 | 电子商务 E-business | 40 | 2.5 | | | | 6 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业核心课程 core courses in specialty | 必修 required | 1203921 | 国际企业管理学 International Enterprise Management | 40 | 2.5 | | | | 5 |
| | 必修 required | 1203931 | 国际市场营销学 International Marketing | 40 | 2.5 | | | | 6 |
| | 必修 required | 0200381 | 国际结算 International Settlement | 32 | 2 | | | | 4 |
| | 必修 required | 0201162 | 国际商务谈判 International Business Negotiation | 32 | 2 | | | | 7 |
| | 必修 required | 0200841 | WTO与中国对外贸易 WTO and International trade of China | 40 | 2.5 | | | | 5 |
| | 必修 required | 0545691 | 英国文学 English Literature | 32 | 2 | | | | 3 |
| | 必修 required | 0545711 | 美国文学 American Literature | 32 | 2 | | | | 5 |
| | 必修 required | 0500201 | 词汇学 Lexicology | 32 | 2 | | | | 4 |
| | 必修 required | 0504901 | 普通语言学 General Linguistics | 32 | 2 | | | | 5 |
| | 必修 required | 0502142 | 跨文化交际 Cross-Cultural Communication | 32 | 2 | | | | 6 |
| | 必修 required | 0503431 | 实用翻译 Practical Translation | 32 | 2 | | | | 6 |
| | 必修 required | 0545522 | 学术英语写作 Academic English Writing | 16 | 1 | | | | 8 |
| 实践环节 practical training items | 必修 required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必修 required | 1300024 | 公益劳动 Labouring for Public Benefit | 1w | 0.5 | | | | 8 |
| | 必修 required | 130005a | 专业实习 Professionai Practice | 5w | 2.5 | | | | 6 |
| | 必修 required | 1300516 | 社会实践 Social Practice | 3w | 1.5 | | | | 4 |
| | 必修 required | 130044c | 科研训练 Scientific Research Training | 2w | 1 | | | | 6 |
| | 必修 required | 1303853 | 课程设计 Courses Design | 3w | 1.5 | | | | 7 |
| | 必修 required | 130004a | 毕业设计（论文） Undergraduate Thesis | 16w | 8 | | | | 8 |

# 经济学创新实验班本科培养计划

# Undergraduate Experimental Program for Advanced Economics Education

## 一、培养目标

## Ⅰ. Program objective

经济学创新实验班以培养未来具有国际竞争力的经济学家为目标，专业课程采用国际一流大学英文原版教材，实行全英语或双语教学，加大数学课程的份量，与数学专业同等要求。培养有扎实的现代经济学理论基础，掌握高深的数学分析方法，能熟练运用英语进行专业交流，能运用计算机进行经济模型分析，实践与创新能力强，能从事经济、金融和贸易的理论研究、教学和实际工作的高级专门人才。

This program provides experimental class for advanced education in Economics with a sound foundation in the principles of economics and an in-depth analytical skill of mathematics, referenced the training program of international top universities. Graduates will become specialists to research and do practical work in the area of economy and finance.

## 二、基本规格要求

## Ⅱ. Learning outcomes

实验班毕业生应获得以下几方面的知识和能力：

1. 经济学修完国际一流大学经济学基本课程；掌握扎实的经济学基础理论；

2. 学习较多的数学课程，具有坚实的数理基础和较强的数学分析能力；

3. 熟练掌握英语，能熟练阅读英文教材及具有较强的口语交流能力；

4. 能运用计算机进行经济模型分析；

5 掌握中外文文献检索、资料查询的基本方法，具有较强的经济研究和实际工作能力。

Experimental class of school of Economics

As a student of this program, he/she shall gain the following:

1. The basic courses of international top universities in economics;

2. The basic courses of applied mathematics program in mathematics;

3. Ability to read the English documents of the two majors and to communicate with others in English;

4. Skills of using computer to analyze economic model;

5. Skills to search documents and data and abilities to research and practical job.

## 三、培养特色

## Ⅲ. Program highlights

秉承国际化的办学理念，课程设置和人才培养基本与国际接轨。强化学生数理基础训练（数学要求不低于数学系学生）、经济学理论基础训练（达到中级以上水平，国外原版教材）、经济现象观察、实践与研究训练（强化实践环节，科研能力训练）、外语和计算能力训练（原版教材，双语或全英语授课，部分海外教师等），创新能力和综合素质训练等。保持外语、数学、计算机教学四年不断线。

We put special emphasis on training of foundameatals of mathematics and physics, theories of economics, practical and researching skills, foreign language and compater skill, creativity and comprenensive quality and observing various economic phenomenon. We keep on teaching of English,

mathematics and information technology during the whole 4 years.

## 四、主干学科

## Ⅳ. Main Disciplines

经济学，数学

Economics，Mathematics

## 五、学制与学位

## Ⅴ. Program length and degree

学制：四年

Duration: 4 years

授予学位：经济学学士

Degrees Conferred: Bachelor of Economics

## 六、学时与学分

## Ⅵ. Credits hours and units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：162.5

Minimum Credits of Curricular (Comprising course system and intensified internship practical training)：162.5

其中，专业基础课程、专业核心课程学分不允许用其他课程学分进行冲抵和替代。

Major-related basic courses and core courses cannot be coverd using credits from other courses in the program.

完成学业最低课外学分要求：5

Minimum Extracurricular Credits：5

1. 课程体系学时与学分

Course credits hours and units

| 课程类别 | | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|---|
| 通识教育课程 | | 必修 | 1016/59.5 | 40.6 |
| | | 选修 | 160/10 | 6.8 |
| 学科（大类）基础课程 | | 必修 | 968/60.5 | 41.3 |
| 专业课程 | 专业核心课程 | 必修 | 232/14.5 | 9.9 |
| | 专业选修课程 | 选修 | 32/2 | 1.4 |
| 合计 | | | 2408/146.5 | 100 |

| Course type | | Course Nature | Hrs/Crs | Percentage (%) |
|---|---|---|---|---|
| General education core curriculum | | Required | 1016/59.5 | 40.6 |
| | | Elective | 160/10 | 6.8 |
| Discipline-related courses | | Required | 968/60.5 | 41.3 |
| Major-specific courses | Coral Courses | Required | 232/14.5 | 9.9 |
| | elective Courses | Elective | 32/2 | 1.4 |
| Total | | | 2408/146.5 | 100 |

2. 集中性实践教学环节周数与学分

Practicum credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 6.3 |
| 公益劳动 | 必修 | 1/0.5 | 3.1 |
| 专业实习 | 必修 | 5/2.5 | 15.5 |
| 社会实践 | 必修 | 3/1.5 | 9.4 |
| 课程（实验）设计 | 必修 | 3/1.5 | 9.4 |
| 科研训练 | 必修 | 2/1 | 6.3 |
| 毕业设计（论文） | 必修 | 16/8 | 50 |
| 合计 | | 32/16 | 100 |

| Internship & Practical Training | Course Nature | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 6.3 |
| Laboring for Public Benefit | Required | 1/0.5 | 3.1 |
| Professional Social Practice | Required | 5/2.5 | 15.5 |
| Social Practice | Required | 3/1.5 | 9.4 |
| Courses Design | Required | 3/1.5 | 9.4 |
| Scientific Research Training | Required | 2/1 | 6.3 |
| Undergraduate Thesis | Required | 16/8 | 50 |
| Total | | 32/16 | 100 |

3. 课外学分

Extracurricular Credits/

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 2 | 英语及计算机考试 | 全国大学英语六级考试 | 考试成绩达到学校要求者 | 2 |
| | | 托福考试 | 达 90 分以上者 | 3 |
| | | 雅思考试 | 达 6.5 分以上者 | 3 |
| | | GRE 考试 | 达 1350 分以上者 | 3 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |
| 3 | 竞赛 | 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 4 | 论文 | 在全国性刊物发表论文 | 每篇论文 | 2~3 |
| 5 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1~3 |
| 6 | 实验 | 视创新情况 | 每项 | 1~3 |

注：参加校体育运动会获第一名、第二名者与校级一等奖等同，获第三名至第五名者与校级二等奖等同，获第六至第八名者与校级三等奖等同。

| No. | Activities | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Community engagement | Submitting a report and passing the oral defense | | 1 |
| | | Individuals awarded “actice participant” /teams awarded “excellent performance” by HUST or Hubei youth league committee | | 2 |
| 2 | Qualifications | CET-6 | Certificate | 2 |
| | | TOEFL, GRE | Certificate | 2 |
| | | National Computer Rank Examination | Certificate(Grade 1/2) | 2 |
| | | Qualifications for computer and software technology proficiency | programmer | 2 |
| | | | Senior Programmer | 3 |
| | | | System Analyst | 4 |
| 3 | Competitions | University Level | first prize | 3 |
| | | | second prize | 2 |
| | | | third prize | 1 |
| | | Provincial Level | first prize | 4 |
| | | | second prize | 3 |
| | | | third prize | 2 |
| | | National Level | first prize | 6 |
| | | | second prize | 4 |
| | | | third prize | 3 |
| 4 | Academic papers | Published in national-level journals | Each paper | 2~3 |
| 5 | Research programs | Contribution and research capability | Each program | 1~3 |
| 6 | Experiments | Innovation capacity | Each experiment | 1~3 |

Note: In HUST Sports Meeting, the first and the second prize, the third to the fifth prize, and the sixth prize to the eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## Ⅶ. Main Courses

经济学原理 Principle of Economics、微观经济学(中高级) Micro-Economics、宏观经济学(中高级)Macro-Economics、会计学 Accounting、统计学 Statistics、财政学 Public Finance、计量经济学(中高级) Econometrics、货币银行学 Money and Banking、证券投资学 Portfolio Investment、国际金融学 International Finance、国际贸易学 International Trade、金融工程学 Financial Engineering

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Practicum module (experiments included)

社会调查 Social Investigation、课程大型作业 Course Project、专业实习和毕业实习 Professional Practice and Undergraduate Practice

## 九、教学进程计划表

## Ⅸ. Course Schedule

院（系）：经济学院　　专业：经济学

School(Department): School of Economics　　Specialty: Economics

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程basic courses in general education | 必修 required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必修 required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必修 required | 0100721 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必修 required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必修 required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必修 required | 0100741 | 形势与政策 Current Affairs and Policy | 32 | 2 | 14 | | | 1-6 |
| | 必修 required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | 必修 required | 0508453 | 综合英语（一） College English （Ⅰ） | 56 | 3.5 | | | | 1 |
| | 必修 required | 0508463 | 综合英语（二） College English （Ⅱ） | 56 | 3.5 | | | | 2 |
| | 必修 required | 0400111 | 大学体育（一） Physical Education(Ⅰ) | 32 | 1 | | | | 1 |
| | 必修 required | 0400121 | 大学体育（二） Physical Education(Ⅱ) | 32 | 1 | | | | 2 |
| | 必修 required | 0400131 | 大学体育（三） Physical Education(Ⅲ) | 32 | 1 | | | | 3 |
| | 必修 required | 0400141 | 大学体育（四） Physical Education(Ⅳ) | 32 | 1 | | | | 4 |
| | 必修 required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 1 |
| | 必修 required | 0827781 | 计算机及程序设计基础（VB/C++） Advanced Programming Language (C) | 48 | 3 | | | 20 | 1 |
| | 必修 required | 0833174 | 数据库技术及应用 Database System | 32 | 2 | | | 8 | 2 |
| | 必修 required | 0703661 | 数学分析（一） Mathematical Analysis (Ⅰ) | 80 | 5 | | | | 1 |
| | 必修 required | 0703672 | 数学分析（二） Mathematical Analysis (Ⅱ) | 88 | 5.5 | | | | 2 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 basic courses in general education | 必修 required | 0703682 | 数学分析（三） Mathematical Analysis (III) | 88 | 5.5 | | | | 3 |
| | 必修 required | 0700051 | 线性代数 Linear Algebra | 40 | 2.5 | | | | 2 |
| | 必修 required | 0700063 | 概率论与数理统计（三） Probability and Mathematics Statistics (III) | 40 | 2.5 | | | | 3 |
| | 必修 required | 0700071 | 复变函数与积分变换 Complex Function and Integral Transform | 40 | 2.5 | | | | 3 |
| | 必修 required | 0706451 | 应用偏微分方程 Partial Differential Equations and Applications | 48 | 3 | | | | 2 |
| | | | 人文社科类选修课程 Restricted Electives in the Humanities | 160 | 10 | | | | |
| 学科大类基础课程 basic courses in general discipline | 必修 required | 0400028 | 经济学科（专业）概论 Introduction to Discipline | 16 | 1 | | | | 1 |
| | 必修 required | 0100044 | 政治经济学原理 Marxist Political Economy | 48 | 3 | | | | 1 |
| | 必修 required | 0200191 | 经济学原理 The principle of Economics | 64 | 4 | | | | 1 |
| | 必修 required | 0200642 | 中级微观经济学 Microeconomics | 64 | 4 | | | | 3 |
| | 必修 required | 1200025 | 会计学 Accounting | 56 | 3.5 | | | | 3 |
| | 必修 required | 0700092 | 统计学 Statistics | 48 | 3 | | | | 3 |
| | 必修 required | 0200652 | 中级宏观经济学 Macroeconomics | 64 | 4 | | | | 4 |
| | 必修 required | 0200091 | 计量经济学 Econometrics | 64 | 4 | | | | 4 |
| | 必修 required | 0200231 | 货币银行学 Money and Banking | 48 | 3 | | | | 4 |
| | 必修 required | 1200061 | 财政学 Public Finance | 40 | 2.5 | | | | 4 |
| | 必修 required | 0200201 | 西方经济思想史 Western Economic Thought | 40 | 2.5 | | | | 4 |
| | 必修 required | 0201041 | 经济学综合实验 Comprehensive Experiments of Economics | 64 | 4 | | | | 3-6 |
| | 必修 required | 0700301 | 随机过程 Stochastic Processes | 48 | 3 | | | | 5 |
| | 必修 required | 0200222 | 博弈论 Economic Game Theory | 40 | 2.5 | | | | 4 |
| | 必修 required | 0200151 | 国际金融学 International Finance | 48 | 3 | | | | 5 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 学科大类基础课程 basic courses in general discipline | 必修 required | 0200141 | 国际贸易学 International Trade | 48 | 3 | | | | 5 |
| | 必修 required | 1200052 | 财务管理 Financial Management | 40 | 2.5 | | | | 5 |
| | 必修 required | 0200101 | 发展经济学 Development Economics | 40 | 2.5 | | | | 6 |
| | 必修 required | 0701771 | 时间序列分析 Time Series Analysis | 48 | 3 | | | | 6 |
| | 必修 required | 0700371 | 最优控制 Theory of Optimal Control | 40 | 2.5 | | | | 7 |
| 专业核心课程 core courses in specialty | 必修 required | 0200112 | 高级微观经济学 Advanced Microeconomics | 64 | 4 | | | | 5 |
| | 必修 required | 0200123 | 高级宏观经济学 Advanced Macroeconomics | 64 | 4 | | | | 6 |
| | 必修 required | 0200131 | 高级计量经济学 Advanced Econometrics | 64 | 4 | | | | 5 |
| | 必修 required | 0200662 | 中级金融理论 | 40 | 2.5 | | | | 6 |
| 专业选修课程 specialty-oriented courses | 选修 Elective | 0700251 | 实变函数 Real Analysis | 48 | 3 | | | | |
| | 选修 Elective | 0200432 | 金融工程学 Financial Engineering | 40 | 2.5 | | | | 6 |
| | 选修 Elective | 0200391 | 证券投资学 Portfolio Investment | 40 | 2.5 | | | | 5 |
| | 选修 Elective | 0200881 | 精算学 Actuarial Science | 32 | 2 | | | | 7 |
| | 选修 Elective | 0200737 | 期货、期权与衍生证券 Future, Option & derivative Securities | 32 | 2 | | | | 7 |
| | 选修 Elective | 0200911 | 经济预测与决策 Economical Forecast and Decision | 40 | 2.5 | | | 8 | 7 |
| | | | 本院其它专业的选修课程 Restricted Elective in Other Specialties in the School | | | | | | |
| 实践环节 practical training items | 必修 required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必修 required | 1300024 | 公益劳动 Laboring for Public Benefit | 1w | 0.5 | | | | 8 |
| | 必修 required | 130005a | 专业实习 Professional Practice | 5w | 2.5 | | | | 6 |
| | 必修 required | 1300516 | 社会实践 Social Practice | 3w | 1.5 | | | | 4 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必修 required | 130044c | 科研训练（经济学研究方法训练） Science Research Training | 2w | 1 | | | | 5 |
| | 必修 required | 1303853 | 课程（实验）设计（经济论文写作） Courses Design | 3w | 1.5 | | | | 7 |
| | 必修 required | 130006b | 毕业论文（论文） Undergraduate Thesis | 16w | 8 | | | | 8 |

注：1、“实变函数”随数学系课堂选修。

2、经济学综合实验 64 学时由以下课程组成：统计学 8 学时，计量经济学 18 学时，证券投资学 10 学时，高级计量经济学 10 学时，财务管理 8 学时，高级宏观经济学 10 学时

# 管 理 学 院

华中科技大学管理学院始建于1979年。现有生产运作与物流管理系、管理科学与信息管理系、工商管理系、财务金融系、会计系、财政金融管理系、科技管理与知识产权系等7个教学单位。学院现有“管理科学与工程”、“工商管理”等2个一级学科博士学位授权点，并设有博士后科研流动站，其中“管理科学与工程”一级学科为国家重点（培育）学科，“工商管理”一级学科为湖北省重点学科；有“管理科学与工程”、“知识产权管理”、“企业管理”、“技术经济及管理”、“会计学”和“经济法”学6个硕士学位授权点和“工商管理（MBA/EMBA)”、“物流工程”、“资产评估”、“工业工程”、“工程管理”、“会计硕士”、“审计硕士”、“税务硕士”等8个专业硕士学位授权点；有“工商管理”、“市场营销”、“信息管理与信息系统”、“财务管理”、“财政学”、“会计学”、“物流管理”等7个本科专业以及“工商管理”双学位专业。2002年被国务院学位办批准为首批EMBA试点单位，还是全国MBA“生产运作管理”教师培训负责单位。学院现有在读学生3000余人，其中本科生1200余人，硕士研究生（含MBA、EMBA）1600余人，博士研究生260余人。

学院拥有一支成长于西方先进管理思潮及中国企业发展实践中的优秀师资队伍，现有专任教师116人，其中91%拥有博士学位。教师结构为教授44人（含34位博士生导师），副教授46人，讲师26人，长江学者讲座教授2人，湖北省楚天学者计划8人，教育部新世纪人才计划8人。学院还聘请了一批国内外知名学者和企业家为兼职教授，经常邀请他们到学院举行各种专题讲座，担任指导教师。作为实力雄厚的科学研究和管理咨询机构，学院先后承担国家、省（部）级和企业合作的研究课题1300多项；近年承担国家自然科学基金和国家社会科学基金项目近230余项，其中国家自然科学基金重点项目7项，国家社科基金重大项目3项；出版专著、教材和译著等二百余部，发表论文5000余篇。2006年国内有关专家通过网络搜索科研论文，确定国内30所大学的管理学院科研实力，学院名列第四。由于在863/CIMS的研究中成果突

出，1999年作为学校的参加单位之一，获得CASA/SME颁发的“大学领先奖”。

管理学院培养本科生的特色为：1）宽口径、厚基础，搭建四级教学平台、通识教育基础课程平台、管理学学科大类基础课程平台、管理类学科专业基础平台、专业课程平台；2）依托学校大工科背景，注重培养在技术革新背景下解决实际问题所应具备的综合能力；3）强化数学、经济学、管理学、英语等基础理论与知识的培养，强化计算机管理、统计分析等现代管理手段和方法的应用；4）依托实习基地，注重管理创新与创业实践能力的培养，培养具有领导素质的高级管理人才。

# 工商管理专业本科培养计划

# Undergraduate Program for Specialty in Business Administration

## 一、培养目标

## Ⅰ. Program Objective

工商管理专业培养适应市场经济需要，能在企事业单位从事经营管理，特别是从事人力资源管理的高级专业人才。通过本专业的培养，学生能在企业一般经理管理，员工招聘，组织设计，组织及员工绩效管理，薪酬管理等管理领域有较坚实的基础理论知识。本专业要求学生能够应用所学知识发现、分析和解决实际问题，同时具备一定的自我发展能力。

Business Administration brings up senior specialized professionals who adapt to the requirements of market economy with systematic knowledge in modern management theory, being able to undertake administrative management, human resource management, teaching and scientific research in enterprises or government departments. This major demands student to be capable of applying the knowledge learned to discover, analyze and resolve practical problems; meanwhile, potential ability for self-development is also necessary.

## 二、基本规格要求

## Ⅱ. Learning Outcomes

工商管理专业学生主要学习管理学、经济学和企业管理的基础理论和基本知识，受到企业管理与技能方面的基本训练，具有分析和解决企业管理问题的基本能力。工商管理专业毕业生应获得以下几方面的知识和能力：

1. 掌握管理学的基础理论知识，具备职业经理人的能力和素质；

2. 掌握运作管理、组织理论与设计、人力资源管理、财务管理、会计学、财政学、市场营销等多方面的专业知识和技能；

3. 具有卓越的组织领导能力，良好的人际沟通能力，适应复杂管理环境的应变能力；

4. 熟悉我国企业管理的有关方针、政策和法规以及国际企业管理的惯例和规则；

5. 了解本学科的理论前沿和发展动态，特别是具有根据企业管理理论发展，站在时代前沿的管理创新能力；

6. 具备实际运用管理技术的能力，包括定量分析能力、计算机应用能力和英语应用能力等；

7. 掌握文献检索、资料查询的基本方法，具有初步的科学研究和实际工作能力。

Business Administration：

The program trains students to become managers capable of analyzing and solving enterprise management problems with knowledge of management, economics and enterprise management. Students will obtain：

1. A broadly basic knowledge of management；

2. The ability and quality to be professional managers；

3. A wide education on operation management, organization theory and design, human resource management, financial management, accounting, finance and marketing；

4. Understanding of policy, regulations and laws of both China and the world in enterprise management；

5. Understanding of the discipline's front and current application；

6. An awareness of innovation, based on the development of enterprise management theory ;

7. The ability to demonstrate an application of management skills, quantitative analytical skills, computer technology skills, and English language performance, skills to search documents and data and abilities to do research and practical job.

## 三、培养特色

### Ⅲ. Program Highlights

1、实行通识教育基础上的宽口径专业教育 ;

2、注重学生专业基础理论知识的教育 ;

3、注重学生专业基本技能和动手能力的训练 ;

4、统一性和多样性相结合，体现培养个性化 ;

5、注重培养学生分析问题和解决问题的能力。

1. This program carries out the general education model of wide scope;

2. This program pays much attention to the education of basic professional theory;

3. This program attaches much importance to the training of basic skills and practice ability;

4. Combine oneness with diversity, indicate the education of individuality;

5. This program highlights the ability of problem analysis and resolve.

## 四、主干学科

### Ⅳ. Major Disciplines

管理学 Management

## 五、学制与学位

### Ⅴ. Program Length and Degree

修业年限：四年

Duration：4 years

授予学位：管理学学士

Degrees Conferred：Bachelor of Management

## 六、学时与学分

### Ⅵ. Credits Hours and Units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：155

Minimum Credits of Curricular (Comprising course system and intensified internship practical training)：155

其中，专业核心课程学分不允许用其他课程学分进行学分冲抵和替代。

Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：5

Minimum Extracurricular Credits：5

1. 课程体系学时与学分

Course Credits Hours and Units

| 课程类别 | | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|---|
| 通识教育基础课程 | | 必修 | 784/49 | 35.38 |
| | | 选修 | 160/10 | 7.22 |
| 学科基础课程 | | 必修 | 440/27.5 | 19.86 |
| 专业课程 | 专业核心课程 | 必修 | 672/42 | 30.32 |
| | 专业方向课程 | 选修 | 160/10 | 7.22 |
| 合计 | | | 2216/138.5 | 100 |

| Course Type | | Required/ Elective | Hrs/Crs | Percentage(%) |
|---|---|---|---|---|
| General Education Core Curriculum | | Required | 784/49 | 35.38 |
| | | Elective | 160/10 | 7.22 |
| Discipline-related Courses | | Required | 440/27.5 | 19.86 |
| Major-specific Courses | Core | Required | 672/42 | 30.32 |
| | Elective | Elective | 160/10 | 7.22 |
| Total | | | 2216/138.5 | 100 |

2. 集中性实践教学环节周数与学分

Practicum Credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 6.06 |
| 公益劳动 | 必修 | 1/0.5 | 3.03 |
| 金工实习 | 必修 | 2/1 | 6.06 |
| 生产实习 | 必修 | 4/2 | 12.12 |
| 管理类综合实验（ERP） | 必修 | 2/1 | 6.06 |
| 毕业设计（论文） | 必修 | 16/8 | 48.49 |
| HR 电子沙盘 | 必修 | 2/1 | 6.06 |
| 课程设计 | 必修 | 2/1 | 6.06 |
| 专业实验 | 必修 | 2/1 | 6.06 |
| 合计 | | 33/16.5 | 100 |

| Course Title | Required/ Elective | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 6.06 |
| Laboring for Public Benefit | Required | 1/0.5 | 3.03 |
| Mechanical Engineering Training | Required | 2/1 | 6.06 |
| Engineering Internship | Required | 4/2 | 12.12 |
| Management Integrated Experiment | Required | 2/1 | 6.06 |
| Undergraduate Thesis | Required | 16/8 | 48.49 |
| Electronic Sand Table | Required | 2/1 | 6.06 |
| Course Project | Required | 2/1 | 6.06 |
| Professional Experiments | Required | 2/1 | 6.06 |
| Total | | 33/16.5 | 100 |

3. 课外学分

Extracurricular Credits

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 演讲或论文 | 至少参加一次公众演讲或完成一篇规范的论文 | | 1 |
| | 竞赛 | 参加并完成一项科技、文化或体育竞赛 | | 1 |
| | 领导者经历 | 至少有一年领导者经历 | | 1 |
| 2 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 3 | 英语及计算机考试 | 全国大学英语六级考试 | 获六级证书者 | 2 |
| | | 托福、GRE 考试 | 达到相应水平（需认定） | 2 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |
| 4 | 竞赛 | 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 5 | 论文 | 在全国性刊物发表论文 | 每篇论文 | 2~3 |
| 6 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1~3 |
| 7 | 实验 | 视创新情况 | 每项 | 1~3 |

注：在校运动会上参加某项目获得第一名、第二名，等同于校级竞赛一等奖；获得 3－5 名，等同于校级竞赛二等奖；获得 6－8 名，等同于校级竞赛三等奖。

| No. | Extracurricular Activities and Social Practice | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Public Speaking or Article | Attend and finish ONE speech contest or submit a article | | 1 |
| | Competition | Attend and finish ONE competition | | 1 |
| | Leader Experience | as a leader at list ONE year | | 1 |
| 2 | Activities of Social Practice | Submit report and pass oral defense | | 1 |
| | | Entitled as Activist by the Communist Youth League of HUST or Hubei Province;<br>Membership of the group which is entitled as Excellent Social Practice Group by the Communist Youth League of HUST or Hubei Province | | 2 |
| 3 | Examinations in English and Computer | CET-6 | Students whose Band-6 exam scores accord our requirements | 2 |
| | | TOEFL, GRE | Students whose exam scores accord requirements | 2 |
| | | National Computer Rank Examination | Win certificate of Band-2 or higher | 2 |
| | | National Computer Software Qualification | Win certificate of programmer | 2 |
| | | | Win certificate of Advanced Programmer | 3 |
| | | | Win certificate of System Analyst | 4 |

continue

| No. | Extracurricular Activities and Social Practice | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 4 | Competitions | University Level | Win first prize | 3 |
| | | | Win second prize | 2 |
| | | | Win third prize | 1 |
| | | Provincial Level | Win first prize | 4 |
| | | | Win second prize | 3 |
| | | | Win third prize | 2 |
| | | National Level | Win first prize | 6 |
| | | | Win second prize | 4 |
| | | | Win third prize | 3 |
| 5 | Thesis | Those whose thesis appears in national publications | Per piece | 2~3 |
| 6 | Scientific Research | Depending on both the time spent in and ability demonstrated in scientific research project | Each item | 1~3 |
| 7 | Experiments | Depending on innovative extent | Each item | 1~3 |

Note: In HUST Sports Meeting, the first and the second prize, the third to the fifth prize, and the sixth prize to the eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## Ⅶ. Main Courses

管理经济学 Managerial Economics、宏观经济学 Macro-economics、会计学 Accounting、财务管理 Financial Management、市场营销学 Marketing、运作管理 Operations Management、组织行为与管理 Organizational Behavior and Management、经济法 Law of Economy、运筹学 Operations Research、计量经济学 Econometrics

## 八、主要实践教学环节（含专业试验）

## Ⅷ. Practicum Module（experiments included）

军事训练 Military Training、公益劳动 Labouring for Public Benefit、金工实习 Industrial Practice、专业实习 Professional Social Practice、生产实习 Engineering Internship、课程设计 Course Project、毕业设计 Undergraduate Thesis

## 九、教学进程计划表

## Ⅸ. Course Schedule

院（系）：管理学院　　专业：工商管理

School(Department): School of Management　　Specialty: Business Administration

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必修 required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必修 required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必修 required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必修 required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必修 required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必修 required | 0100741 | 形势与政策 Current Affairs and Policy | 32 | 2 | 14 | | | 1—6 |
| | 必修 required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | 必修 required | 0508453 | 综合英语（一） College English （Ⅰ） | 56 | 3.5 | | | | 1 |
| | 必修 required | 0508463 | 综合英语（二） College English （Ⅱ） | 56 | 3.5 | | | | 2 |
| | 必修 required | 0700011 | 微积分（一）上 Calculus（Ⅰ） | 88 | 5.5 | | | | 1 |
| | 必修 required | 0700012 | 微积分（一）下 Calculus（Ⅰ） | 88 | 5.5 | | | | 2 |
| | 必修 required | 0833174 | 数据库技术及应用 Database Techniques and Their Applications | 32 | 2 | | 8 | | 2 |
| | 必修 required | 0400111 | 大学体育（一） Physical Education(Ⅰ) | 32 | 1 | | | | 1 |
| | 必修 required | 0400121 | 大学体育（二） Physical Education(Ⅱ) | 32 | 1 | | | | 2 |
| | 必修 required | 0400131 | 大学体育（三） Physical Education(Ⅲ) | 32 | 1 | | | | 3 |
| | 必修 required | 0400141 | 大学体育（四） Physical Education(Ⅳ) | 32 | 1 | | | | 4 |
| | 必修 required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 7 |
| | 必修 required | 0700054 | 线性代数 Linear Algebra | 40 | 2.5 | | | | 2 |
| | 必修 required | 0700063 | 概率论与数理统计（三） Probability and Mathematics（Ⅲ） | 40 | 2.5 | | | | 3 |
| | 必修 required | 0827781 | 计算机与程序设计基础（C++） Advanced Programming Language (C++) | 48 | 3 | | 8 | | 1 |
| | | | 人文社科类选修课程 Electives in Humanities and Social Science | 160 | 10 | | | | |
| | 必修 required | 0400027 | 学科（专业）概论 Introduction to Discipline | 16 | 1 | | | | 1 |
| | 必修 required | 1204671 | 组织行为与管理 Organizational Behavior and Management | 48 | 3 | | | | 2 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 学科（大类）基础课程 Discipline-related General Courses | 必修 required | 1200024 | 会计学原理 Accounting | 48 | 3 | | | | 1 |
| | 必修 required | 0200074 | 管理经济学 Management Economics | 48 | 3 | | | | 1 |
| | 必修 required | 0200023 | 宏观经济学 Macro-Economics | 40 | 2.5 | | | | 3 |
| | 必修 required | 0702412 | 运筹学（一） Operations Research（Ⅰ） | 64 | 4 | | 8 | | 3 |
| | 必修 required | 1200052 | 财务管理 Financial Management | 40 | 2.5 | | | | 4 |
| | 必修 required | 1200091 | 市场营销学 Marketing | 40 | 2.5 | | 8 | | 3 |
| | 必修 required | 1200121 | 运作管理 Operations Management | 40 | 2.5 | | | | 4 |
| | 必修 required | 1200042 | 管理信息系统 Management Information Systems | 40 | 2.5 | | 8 | | 4 |
| | 必修 required | 0200303 | 学科发展前沿专题研究 Current Issues in Management Subject | 16 | 1 | | | | 7 |
| 专业核心课程 Major Core Courses | 必修 required | 1200117 | 电子商务 Electronic Commerece | 32 | 2 | | | | 4 |
| | 必修 required | 1201993 | 管理统计学 Management Statistics | 32 | 2 | | | | 4 |
| | 必修 required | 0200421 | 财务报表分析 Analysis of Financial Statements | 32 | 2 | | | | 5 |
| | 必修 required | 1201631 | 项目管理 Project Management | 32 | 2 | | | | 5 |
| | 必修 required | 1200352 | 人力资源管理 Human Resource Management | 32 | 2 | | | | 4 |
| | 必修 required | 1204052 | 案例分析方法 Case study Methodology | 32 | 2 | | | | 3 |
| | 必修 required | 1204101 | 国际商务 International Business | 32 | 2 | | | | 6 |
| | 必修 required | 1204471 | 商务沟通与谈判 Business Communication and Negotiation | 32 | 2 | | | | 6 |
| | 必修 required | 1200342 | 企业战略管理 Strategic Management | 40 | 2.5 | | | | 4 |
| | 必修 required | 1202022 | 人员测评与人员选拔 Personnel Assessment and Selection | 40 | 2.5 | | | | 5 |
| | 必修 required | 1202981 | 组织设计与工作分析 Organization Design & Job Analysis | 40 | 2.5 | | | | 5 |
| | 必修 required | 1203522 | 员工培训与开发 HR Training And Development | 40 | 2.5 | | | | 5 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业核心课程 Major Core Courses | 必修 required | 1203332 | 绩效考核与绩效管理 Performance Apprisal and Performance Management | 40 | 2.5 | | | | 6 |
| | 必修 required | 1202043 | 薪酬管理 Compensation | 40 | 2.5 | | | | 6 |
| | 必修 required | 1204311 | 劳动关系与劳动法 Labor Relation and Labor Law | 40 | 2.5 | | | | 6 |
| | 必修 required | 1204271 | 人力资源战略与规划 Human Resource Strategy & Planning | 40 | 2.5 | | | | 7 |
| | 必修 required | 1205041 | 领导力提升 Leadership Skills | 32 | 2 | | | | 7 |
| | 必修 required | 1205071 | 应用心理学 Applied Psychology | 32 | 2 | | | | 3 |
| | 必修 required | 1202472 | 创业学 Entrepreneurship | 32 | 2 | | | | 7 |
| 专业选修课（模块一） Major-specific Electives(Module I) | | | 专业选修课（160/10，其中模块一中至少任选一门。） | | | | | | |
| | 选 修 Elective | 0812071 | 博弈论 Game Theory | 32 | 2 | | | | 5 |
| | 选 修 Elective | 200094 | 计量经济学 Econometrics | 48 | 3 | | | | 6 |
| | 选 修 Elective | 1203981 | 商业数据分析与挖掘 Business Data Analysis and Mining | 40 | 2.5 | | | | 6 |
| 专业选修课（模块二） Major-specific Electives(Module II) | 选 修 Elective | 1205001 | 行为经济与管理 Behavional Economy and Management | 32 | 2 | | | | 6 |
| | 选 修 Elective | 1205011 | 企业税收与实务 Enterprise Tax and Practice | 32 | 2 | | | | 4 |
| | 选 修 Elective | 1204761 | 城市物流 City Logistics | 32 | 2 | | | | 5 |
| | 选 修 Elective | 1205021 | 供应链金融与风险管理 Supply Chain Finance & Risk Management | 32 | 2 | | | | 6 |
| | 选 修 Elective | 1200375 | 供应链管理（I） Supply Chain Management(I) | 32 | 2 | | | | 6 |
| | 选 修 Elective | 1205031 | 公共关系礼仪 Public Relationship Etiquette | 32 | 2 | | | | 7 |
| | 选 修 Elective | 0827797 | 计算机与程序设计基础（VB） Advanced Programming Language（VB） | 40 | 2.5 | | | | 1 |
| | 选 修 Elective | 1201411 | 国际贸易实务 International Trade and Practice | 32 | 2 | | | | 5 |
| | 选 修 Elective | 1205051 | 社会网络分析 Social Network Analysis | 32 | 2 | | | | 4 |
| | 选 修 Elective | 1203751 | 商业伦理 Business Ethics | 32 | 2 | | | | 5 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 选 修 Elective | 0300053 | 经济法 Law of Economy | 32 | 2 | | | | 4 |
| | 选 修 Elective | 1204331 | 企业内部控制 Internal Control | 32 | 2 | | | | 4 |
| | 选 修 Elective | 1204361 | 高级财务成本管理 Advanced Financial and Cost Management | 48 | 3 | | | | 5 |
| | 选 修 Elective | 1204282 | 公司战略与风险管理 Corporate Strategy and Risk Management | 48 | 3 | | | | 6 |
| 实践环节 practical training items | 必修 required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必修 required | 1300024 | 公益劳动 Labouring for Public Benefit | 1w | 0.5 | | | | 5 |
| | 必修 required | 130042a | 课程设计 Course Project | 2w | 1 | | | | 6 |
| | 必修 required | 1302331 | 金工实习 Industrial Practice | 2w | 1 | | | | 3 |
| | 必修 required | 1300904 | 专业实验 Professional Experiments | 2w | 1 | | | | 4 |
| | 必修 required | 1327694 | 生产实习 Engineering Internship | 4w | 2 | | | | 6 |
| | 必修 required | 1306101 | HR 电子沙盘 Electronic Sand Table | 2w | 1 | | | | 7 |
| | 必修 required | 1327702 | 管理类综合实验（ERP） Management Integrated Experiment(ERP) | 2w | 1 | | | | 6 |
| | 必修 required | 130004a | 毕业设计（论文） Undergraduate Thesis | 16w | 8 | | | | 8 |

# 工商管理、财务管理、会计学、市场营销第二主修专业培养计划

## Undergraduate Program for the Second Specialty in Business Administration, Financial Management, Accounting and Marketing

### 一、培养目标

Ⅰ. Program Objective

培养具备管理、经济、法律方面的知识和能力，掌握现代管理方法和手段，熟练运用一门外国语，能在各类工商企业、金融机构、中介机构、相关政府管理部门、学校、科研单位、经济管理咨询部门工作的专业人才。

通过系统的理论和专业知识学习，使学生成为适应社会主义市场经济需要的，具备技术、管理、经济等多项专业知识的复合型人才。

The program is designed to enable students to develop a career in business sectors, finance institution, agency institution, government, schools, research institutes and consultation sectors of economic management with the knowledge and skills of management, economy and law, mastery of modern management methods and a foreign language.

Through systemic studying theories, the program is designed to enable students to develop a inter-disciplinary talent to meet the need of the Socialist Market Economy with professional knowledge of technology, management, economy and so on.

### 二、学位

Ⅱ. Degree Conferred

管理学

Bachelor of Management

### 三、学分

Ⅲ. Credits

完成学业最低学分要求：45 学分

Minimum Course Credits：45

其中：

Including：

学科大类基础课程：22 学分

Discipline-related General Courses：22

学科专业基础课程：5 学分

Basic Sub-disciplinary Courses：5

专业核心课程：6 学分

Major-specific Core Courses：6

专业方向课程：7 学分

Major-specific Electives：7

毕业设计：5 学分

Undergraduate Thesis：5

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 学科大类基础课程 Discipline-related General Courses | 必 修 Required | 1200025 | 会计学 Accounting | 56 | 3.5 | | | | 4 |
| | 必 修 Required | 0300053 | 经济法 Economic Law | 32 | 2 | | | | 4 |
| | 必 修 Required | 0200071 | 管理经济学 Management Economics | 40 | 2.5 | | | | 4 |
| | 必 修 Required | 0200161 | 金融市场 Financial Market | 32 | 2 | | | | 4 |
| | 必 修 Required | 1200081 | 财政与税收 Finance and Taxation | 40 | 2.5 | | | | 5 |
| | 必 修 Required | 1202241 | 市场营销 Marketing | 40 | 2.5 | | | | 5 |
| | 必 修 Required | 1200031 | 组织行为学 Organizational Behavior | 32 | 2 | | | | 5 |
| | 必 修 Required | 0200023 | 宏观经济学 Macro-economics | 40 | 2.5 | | | | 5 |
| | 必 修 Required | 1200052 | 财务管理 Financial Management | 40 | 2.5 | | | | 6 |
| 学科专业基础课程 Basic Sub-disciplinary Courses | 必 修 Required | 1200042 | 管理信息系统 Management Information Systems | 40 | 2.5 | | | | 6 |
| | 必 修 Required | 1200121 | 运作管理 Operation Management | 40 | 2.5 | | | | 6 |
| 专业核心课程 Major-specific Core Courses | 必 修 Required | 0200422 | 财务报表分析 Financial Reporting Analysis | 24 | 1.5 | | | | 5 |
| | 必 修 Required | 1200351 | 人力资源管理 Human Resource Management | 40 | 2.5 | | | | 6 |
| | 必 修 Required | 1201422 | 企业税收筹划 Enterprise Tax Planning | 32 | 2 | | | | 7 |
| 专业方向课程 Major-specific Electives | | | “财务管理”方向 Financial Management | | | | | | |
| | 必 修 Required | 1200292 | 保险学 Insurance | 40 | 2.5 | | | | 7 |
| | 必 修 Required | 1200261 | 证券投资分析 Portfolio Analysis and Investment | 40 | 2.5 | | | | 7 |
| | 必 修 Required | 1200301 | 公司高级财务 Enterprise Senior Finance | 32 | 2 | | | | 7 |
| | | | “会计学”方向 Accounting | | | | | | |
| | 必 修 Required | 1200883 | 管理会计学 Management Accounting | 40 | 2.5 | | | | 7 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业方向课程 Major-specific Electives | 必 修 Required | 1200892 | 审计学 Auditing | 40 | 2.5 | | | | 7 |
| | 必 修 Required | 1200912 | 高级财务会计 Senior Financial Accounting | 32 | 2 | | | | 7 |
| | | | “财税管理”方向 Public Finance | | | | | | |
| | 必 修 Required | 0200212 | 公共经济学 Public Economics | 40 | 2.5 | | | | 7 |
| | 必 修 Required | 1200821 | 外汇交易与管理 Foreign Exchange and Management | 40 | 2.5 | | | | 7 |
| | 必 修 Required | 1200152 | 跨国公司税收 Multinational Enterprise Taxation | 32 | 2 | | | | 7 |
| | | | “人力资源管理”方向 Human Resource Management | | | | | | |
| | 必 修 Required | 1203522 | 员工招聘与培训 Employee Recruitment & Training | 40 | 2.5 | | | | 7 |
| | 必 修 Required | 1202471 | 组织设计与工作分析 Organization Design & Job Analysis | 40 | 2.5 | | | | 7 |
| | 必 修 Required | 1202481 | 绩效考评与薪酬管理 Performance and Compensation Management | 32 | 2 | | | | 7 |
| | | | “市场营销”方向 Marketing | | | | | | |
| | 必 修 Required | 1201781 | 广告与促销 Advertisment and Promotion | 40 | 2.5 | | | | 7 |
| | 必 修 Required | 1201032 | 市场研究 Marketing Research | 40 | 2.5 | | | | 7 |
| | 必 修 Required | 1202491 | 营销渠道管理 Marketing Channels Management | 32 | 2 | | | | 7 |
| | | | “知识产权管理”方向 Intellectual Property Management | | | | | | |
| | 必 修 Required | 1204611 | 专利管理 Patent Management | 40 | 2.5 | | | | 7 |
| | 必 修 Required | 1204621 | 著作权管理 Copyright Management | 40 | 2.5 | | | | 7 |
| | 必 修 Required | 1204631 | 商标管理 Trademark Management | 32 | 2 | | | | 7 |
| 实践环节 practical training items | 必 修 Required | 1300057 | 毕业设计（论文） Undergraduate Thesis | 10w | 5 | | | | 8 |

# 工商管理、财务管理、会计学、市场营销辅修专业培养计划

## Undergraduate Program for Auxiliary Specialty in Business Administration, Financial Management, Accounting and Marketing

### 一、培养目标

### Ⅰ. program objective

培养具备管理、经济、法律方面的知识和能力，掌握现代管理方法和手段，熟练运用一门外国语，能在各类工商企业、金融机构、中介机构、相关政府管理部门、学校、科研单位、经济管理咨询部门工作的专业人才。

通过系统的理论和专业知识学习，使学生成为适应社会主义市场经济需要的，具备技术、管理、经济等多项专业知识的复合型人才。

The program is designed to enable students to develop a career in business sectors, finance institution, agency institution, government, schools, research institutes and consultation sectors of economic management with the knowledge and skills of management, economy and law, mastery of modern management methods and a foreign language.

Through systemic studying theories, the program is designed to enable students to develop a inter-disciplinary talent to meet the need of the Socialist Market Economy with professional knowledge of technology, management, economy and so on.

### 二、学分

### Ⅱ. Credits

完成学业最低学分要求：26

Minimum Course Credits：26

其中：

Including：

学科基础课程：13 学分

Basic Courses in Discipline：13

学科专业课程：13 学分

Courses in Specialty：13

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 学科基础课程 Discipline-related General Courses | 必　修 Required | 1200025 | 会计学 Accounting | 56 | 3.5 | | | | 4 |
| | 必　修 Required | 0200071 | 管理经济学 Management Economics | 40 | 2.5 | | | | 4 |
| | 必　修 Required | 0200161 | 金融市场 Financial Market | 32 | 2 | | | | 4 |
| | 必　修 Required | 1200081 | 财政与税收 Finance and Taxation | 40 | 2.5 | | | | 5 |
| | 必　修 Required | 0200023 | 宏观经济学 Macro-economics | 40 | 2.5 | | | | 5 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 学科专业基础课程 Basic Sub-disciplinary Courses | 必 修 Required | 1200042 | 管理信息系统 Management Information Systems | 40 | 2.5 | | | | 6 |
| | 必 修 Required | 0300053 | 经济法 Economic Law | 32 | 2 | | | | 4 |
| | 必 修 Required | 1202241 | 市场营销 Marketing | 40 | 2.5 | | | | 5 |
| | 必 修 Required | 1200031 | 组织行为学 Organizational Behavior | 32 | 2 | | | | 5 |
| | 必 修 Required | 1200052 | 财务管理 Financial Management | 40 | 2.5 | | | | 6 |
| | 必 修 Required | 0200422 | 财务报表分析 Financial Reporting Analysis | 24 | 1.5 | | | | 5 |

# 市场营销专业本科培养计划

# Undergraduate Program for Specialty in Marketing

## 一、培养目标

### Ⅰ. Program Objective

市场营销专业培养具备国际视野、较强分析能力和沟通能力、掌握规范科学研究方法、适应科研工作和大型企业、跨国企业需求的高素质营销人才。通过本专业的培养，学生能在市场营销的市场研究、消费行为分析、广告与促销、销售渠道及物流管理等方面掌握系统的理论和实践技能。本专业注重加强学生在外语、量化分析能力和人际沟通等方面的能力。

The marketing program prepares students to be marketing professionals for large-sized and cross-national corporations, as well as for scientific research organizations, characterized as better international views, strong in analysis and communication, and good at scientific research methodology. The specialized training gives students systematic theories and practical skills to apply on market research, consumption behavior analysis, advertisement and promotion, marketing channel and logistic management. The program emphasizes the ability to use a foreign language, expertise in quantitive analysis and communication.

## 二、基本规格要求

### Ⅱ. Learning Outcomes

市场营销专业学生主要学习市场营销的基本理论和基本知识、受到营销方法和技能方面的基本训练，具有分析解决营销问题的基本能力。毕业生应获得以下几方面的知识和能力：

1. 掌握管理学、经济学和现代企业管理的基本理论、基本知识；
2. 掌握市场营销的定性、定量分析方法；
3. 掌握信息管理技术的基本理论和基本知识；
4. 具有较强的语言与文字表达、人际沟通以及组织管理的基本能力；
5. 熟悉我国有关市场营销的方针、政策及法规以及了解国际市场营销的惯例和规则；
6. 了解本学科的理论前沿及发展动态；
7. 掌握文献检索、资料查询的基本方法，具有一定的科学研究和实际工作能力。

Marketing：

As a student of this program, you will gain：

1. Knowledge of management science, economics and modern enterprise management；
2. Skills of qualitative and quantitative analysis in marketing management；
3. Skills of gathering information and its management；
4. Ability in the use of mother language to plan, conduct and present a business project, essential skills for effective communication, ability to work as an organizer and a leader；
5. Understanding the policy, regulations and laws of China, and the routine rules of international marketing；
6. An awareness of its current stage of development；and
7. The skills to search documents and data, and abilities to do research and practical job.

## 三、培养特色

## Ⅲ. Program Highlights

1、实行通识教育基础上的宽口径专业教育；

2、注重学生专业基础理论知识的教育；

3、注重学生专业基本技能和动手能力的训练；

4、统一性和多样性相结合，体现培养个性化；

5、注重培养学生分析问题和解决问题的能力。

1. This program carries out the general education model of wide scope;

2. This program pays much attention to the education of basic professional theory;

3. This program attaches much importance to the training of basic skills and practice ability;

4. Combine oneness with diversity, indicate the education of individuality;

5. This program highlights the ability of problem analysis and resolve.

## 四、主干学科

## Ⅳ. Major Disciplines

管理学 Management

## 五、学制与学位

## Ⅴ. Program Length and Degree

修业年限：四年

Duration：4 years

授予学位：管理学学士

Degrees Conferred：Bachelor of Management

## 六、学时与学分

## Ⅵ. Credits Hours and Units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：161

Minimum Credits of Curricular (Comprising course system and intensified internship practical training)：161

其中，专业核心课程学分不允许用其他课程学分进行学分冲抵和替代。

Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：5

Minimum Extracurricular Credits：5

1. 课程体系学时与学分

Course Credits Hours and Units

| 课程类别 | | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|---|
| 通识教育基础课程 | | 必修 | 784/49 | 33.68 |
| | | 选修 | 160/10 | 6.87 |
| 学科基础课程 | | 必修 | 440/27.5 | 18.90 |
| 专业课程 | 专业核心课程 | 必修 | 784/49 | 33.68 |
| | 专业方向课程 | 选修 | 160/10 | 6.87 |
| 合计 | | | 2328/145.5 | 100 |

| Course Type | | Required/ Elective | Hrs/Crs | Percentage(%) |
|---|---|---|---|---|
| General Education Core Curriculum | | Required | 784/49 | 33.68 |
| | | Elective | 160/10 | 6.87 |
| Discipline-related Courses | | Required | 440/27.5 | 18.9 |
| Major-specific Courses | Core | Required | 784/49 | 33.68 |
| | Elective | Elective | 160/10 | 6.87 |
| Total | | | 2328/145.5 | 100 |

2. 集中性实践教学环节周数与学分

Practicum Credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 6.45 |
| 公益劳动 | 必修 | 1/0.5 | 3.23 |
| 金工实习 | 必修 | 2/1 | 6.45 |
| 生产实习 | 必修 | 4/2 | 12.90 |
| 管理类综合实验（ERP） | 必修 | 2/1 | 6.45 |
| 毕业设计（论文） | 必修 | 16/8 | 51.62 |
| 课程设计 | 必修 | 2/1 | 6.45 |
| 专业实验 | 必修 | 2/1 | 6.45 |
| 合计 | | 31/15.5 | 100 |

| Course Title | Required/ Elective | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 6.45 |
| Laboring for Public Benefit | Required | 1/0.5 | 3.23 |
| Mechanical Engineering Training | Required | 2/1 | 6.45 |
| Engineering Internship | Required | 4/2 | 12.90 |
| Management Integrated Experiment | Required | 2/1 | 6.45 |
| Undergraduate Thesis | Required | 16/8 | 51.62 |
| Course Project | Required | 2/1 | 6.45 |
| Professional Experiments | Required | 2/1 | 6.45 |
| Total | | 31/15.5 | 100 |

3. 课外学分

Extracurricular Credits

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 演讲或论文 | 至少参加一次公众演讲或完成一篇规范的论文 | | 1 |
| | 竞赛 | 参加并完成一项科技、文化或体育竞赛 | | 1 |
| | 领导者经历 | 至少有一年领导者经历 | | 1 |
| 2 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 3 | 英语及计算机考试 | 全国大学英语六级考试 | 获六级证书者 | 2 |
| | | 托福、GRE 考试 | 达到相应水平（需认定） | 2 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |
| 4 | 竞赛 | 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |

续表

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 4 | 竞赛 | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 5 | 论文 | 在全国性刊物发表论文 | 每篇论文 | 2~3 |
| 6 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1~3 |
| 7 | 实验 | 视创新情况 | 每项 | 1~3 |

注：在校运动会上参加某项目获得第一名、第二名，等同于校级竞赛一等奖；获得 3－5 名，等同于校级竞赛二等奖；获得 6－8 名，等同于校级竞赛三等奖。

| No. | Extracurricular Activities and Social Practice | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Public Speaking or Article | Attend and finish ONE speech contest or submit a article | | 1 |
| | Competition | Attend and finish ONE competition | | 1 |
| | Leader Experience | as a leader at list ONE year | | 1 |
| 2 | Activities of Social Practice | Submit report and pass oral defense | | 1 |
| | | Entitled as Activist by the Communist Youth League of HUST or Hubei Province;<br>Membership of the group which is entitled as Excellent Social Practice Group by the Communist Youth League of HUST or Hubei Province | | 2 |
| 3 | Examinations in English and Computer | CET-6 | Students whose Band-6 exam scores accord our requirements | 2 |
| | | TOEFL, GRE | Students whose exam scores accord requirements | 2 |
| | | National Computer Rank Examination | Win certificate of Band-2 or higher | 2 |
| | | National Computer Software Qualification | Win certificate of programmer | 2 |
| | | | Win certificate of Advanced Programmer | 3 |
| | | | Win certificate of System Analyst | 4 |
| 4 | Competitions | University Level | Win first prize | 3 |
| | | | Win second prize | 2 |
| | | | Win third prize | 1 |
| | | Provincial Level | Win first prize | 4 |
| | | | Win second prize | 3 |
| | | | Win third prize | 2 |
| | | National Level | Win first prize | 6 |
| | | | Win second prize | 4 |
| | | | Win third prize | 3 |
| 5 | Thesis | Those whose thesis appears in national publications | Per piece | 2~3 |
| 6 | Scientific Research | Depending on both the time spent in and ability demonstrated in scientific research project | Each item | 1~3 |
| 7 | Experiments | Depending on innovative extent | Each item | 1~3 |

Note: In HUST Sports Meeting, the first and the second prize, the third to the fifth prize, and the sixth prize to the eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## Ⅶ. Main Courses

管理经济学 Managerial Economics、宏观经济学 Macro-economics、财务管理 Financial Management、市场营销学 Marketing、运作管理 Operations Management、组织行为与管理 Organizational Behavior and Management、经济法 Law of Economy、运筹学 Operations Research、计量经济学 Econometrics

## 八、主要实践教学环节（含专业试验）

## Ⅷ. Practicum Module（experiments included）

军事训练 Military Training、公益劳动 Labouring for Public Benefit、金工实习 Industrial Practice、专业实习 Professional Social Practice、生产实习 Engineering Internship、课程设计 Course Project、毕业设计 Undergraduate Thesis

## 九、教学进程计划表

## Ⅸ. Course Schedule

院（系）：管理学院　　专业：市场营销

School(Department): School of Management　　Specialty: Marketing

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必修 required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必修 required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必修 required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必修 required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必修 required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必修 required | 0100741 | 形势与政策 Current Affairs and Policy | 32 | 2 | 14 | | | 1—6 |
| | 必修 required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | 必修 required | 0508453 | 综合英语（一） College English （Ⅰ） | 56 | 3.5 | | | | 1 |
| | 必修 required | 0508463 | 综合英语（二） College English （Ⅱ） | 56 | 3.5 | | | | 2 |
| | 必修 required | 0700011 | 微积分（一）上 Calculus（Ⅰ） | 88 | 5.5 | | | | 1 |
| | 必修 required | 0700012 | 微积分（一）下 Calculus（Ⅰ） | 88 | 5.5 | | | | 2 |
| | 必修 required | 0833174 | 数据库技术及应用 Database Techniques and Their Applications | 32 | 2 | | 8 | | 2 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必修 required | 0400111 | 大学体育（一） Physical Education(Ⅰ) | 32 | 1 | | | | 1 |
| | 必修 required | 0400121 | 大学体育（二） Physical Education(Ⅱ) | 32 | 1 | | | | 2 |
| | 必修 required | 0400131 | 大学体育（三） Physical Education(Ⅲ) | 32 | 1 | | | | 3 |
| | 必修 required | 0400141 | 大学体育（四） Physical Education(Ⅳ) | 32 | 1 | | | | 4 |
| | 必修 required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 7 |
| | 必修 required | 0700054 | 线性代数 Linear Algebra | 40 | 2.5 | | | | 2 |
| | 必修 required | 0700063 | 概率论与数理统计（三） Probability and Mathematics（Ⅲ） | 40 | 2.5 | | | | 3 |
| | 必修 required | 0827781 | 计算机与程序设计基础（C++） Advanced Programming Language (C++) | 48 | 3 | | 8 | | 1 |
| | | | 人文社科类选修课程 Electives in Humanities and Social Science | 160 | 10 | | | | |
| 学科（大类）基础课程 Discipline-related General Courses | 必修 required | 0400027 | 学科（专业）概论 Introduction to Discipline | 16 | 1 | | | | 1 |
| | 必修 required | 1204671 | 组织行为与管理 Organizational Behavior and Management | 48 | 3 | | | | 2 |
| | 必修 required | 1200024 | 会计学原理 Accounting | 48 | 3 | | | | 1 |
| | 必修 required | 0200074 | 管理经济学 Management Economics | 48 | 3 | | | | 1 |
| | 必修 required | 0200023 | 宏观经济学 Macro-Economics | 40 | 2.5 | | | | 3 |
| | 必修 required | 0702412 | 运筹学（一） Operations Research（Ⅰ） | 64 | 4 | | 8 | | 3 |
| | 必修 required | 1200052 | 财务管理 Financial Management | 40 | 2.5 | | | | 4 |
| | 必修 required | 1200091 | 市场营销学 Marketing | 40 | 2.5 | | 8 | | 3 |
| | 必修 required | 1200121 | 运作管理 Operations Management | 40 | 2.5 | | | | 4 |
| | 必修 required | 1200042 | 管理信息系统 Management Information Systems | 40 | 2.5 | | 8 | | 4 |
| | 必修 required | 0200303 | 学科发展前沿专题研究 Current Issues in Management Subject | 16 | 1 | | | | 7 |
| | 必修 required | 1205081 | 整合营销传播 Integrated marketing communication | 40 | 2.5 | | | | 4 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业核心课程 Major Core Courses | 必修 required | 1401571 | 销售管理 Sales management | 32 | 2 | | | | 4 |
| | 必修 required | 1205091 | 品牌建设与管理 brand development and management | 32 | 2 | | | | 4 |
| | 必修 required | 1205101 | 渠道建设与管理 Marketing channel management | 32 | 2 | | | | 5 |
| | 必修 required | 1204091 | 客户关系管理 Customer relationship management | 32 | 2 | | | | 6 |
| | 必修 required | 1205111 | 定价战略与战术 Pricing | 32 | 2 | | | | 5 |
| | 必修 required | 1204471 | 商务沟通与谈判 Business Communication and Negotiation | 32 | 2 | | | | 4 |
| | 必修 required | 1205121 | 产品规划与设计 Product management | 32 | 2 | | | | 5 |
| | 必修 required | 1200162 | 消费者行为学 Consumer behavior | 40 | 2.5 | | | | 3 |
| | 必修 required | 1201033 | 市场研究 Market research | 48 | 3 | | | | 4 |
| | 必修 required | 1205131 | 营销工程 Marketing engineering | 40 | 2.5 | | | | 5 |
| | 必修 required | 1203981 | 商业数据分析与挖掘 Business data analysis and mining | 40 | 2.5 | | | | 5 |
| | 必修 required | 1205141 | 互联网营销 Digital marekting | 32 | 2 | | | | 3 |
| | 必修 required | 1205151 | 社会化媒体营销 social media marketing | 32 | 2 | | | | 5 |
| | 必修 required | 1203962 | 服务营销与管理 Service marketing and management | 32 | 2 | | | | 6 |
| | 必修 required | 1205161 | 搜索引擎营销 Search engine marketing | 32 | 2 | | | | 6 |
| | 必修 required | 1205171 | 组织间营销 Business-to-Business marketing | 32 | 2 | | | | 3 |
| | 必修 required | 1204101 | 国际商务 International business | 32 | 2 | | | | 6 |
| | 必修 required | 1205181 | 商业模式设计与创新 Business model development and innovation | 32 | 2 | | | | 5 |
| | 必修 required | 1200342 | 企业战略管理 Enterprise strategic management | 32 | 2 | | | | 6 |
| | 必修 required | 0843901 | Web 应用开发 Web application and development | 32 | 2 | | | | 3 |
| | 必修 required | 1205041 | 领导力提升 Leadership Skills | 32 | 2 | | | | 7 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必修 required | 1201631 | 项目管理 project management | 32 | 2 | | | | 4 |
| 专业选修课（模块Ⅰ）Major-specific Electives(Module I) | | | 专业选修课（160/10，其中模块一中至少任选一门。） | | | | | | |
| | 选 修 Elective | 0812071 | 博弈论 Game Theory | 32 | 2 | | | | 5 |
| | 选 修 Elective | 1201993 | 管理统计学 Management Statistics | 32 | 2 | | | | 4 |
| | 选 修 Elective | 200094 | 计量经济学 Econometrics | 48 | 3 | | | | 6 |
| | 选 修 Elective | 1203981 | 商业数据分析与挖掘 Business Data Analysis and Mining | 40 | 2.5 | | | | 6 |
| 专业选修课（模块Ⅱ）Major-specific Electives(Module II) | 选 修 Elective | 1205001 | 行为经济与管理 Behavional Economy and Management | 32 | 2 | | | | 6 |
| | 选 修 Elective | 1205011 | 企业税收与实务 Enterprise Tax and Practice | 32 | 2 | | | | 4 |
| | 选 修 Elective | 1204761 | 城市物流 City Logistics | 32 | 2 | | | | 5 |
| | 选 修 Elective | 1205021 | 供应链金融与风险管理 Supply Chain Finance & Risk Management | 32 | 2 | | | | 6 |
| | 选 修 Elective | 1200375 | 供应链管理（I） Supply Chain Management(I) | 32 | 2 | | | | 6 |
| | 选 修 Elective | 1200352 | 人力资源管理 Human Resource Management | 32 | 2 | | | | 5 |
| | 选 修 Elective | 1205031 | 公共关系礼仪 Public Relationship Etiquette | 32 | 2 | | | | 7 |
| | 选 修 Elective | 0827797 | 计算机与程序设计基础（VB） Advanced Programming Language（VB） | 40 | 2.5 | | | | 1 |
| | 选 修 Elective | 1201411 | 国际贸易实务 International Trade and Practice | 32 | 2 | | | | 5 |
| | 选 修 Elective | 1205051 | 社会网络分析 Social Network Analysis | 32 | 2 | | | | 4 |
| | 选 修 Elective | 1203751 | 商业伦理 Business Ethics | 32 | 2 | | | | 5 |
| | 选 修 Elective | 0300053 | 经济法 Law of Economy | 32 | 2 | | | | 4 |
| | 选 修 Elective | 1204331 | 企业内部控制 Internal Control | 32 | 2 | | | | 4 |
| | 选 修 Elective | 1204361 | 高级财务成本管理 Advanced Financial and Cost Management | 48 | 3 | | | | 5 |
| | 选 修 Elective | 1204282 | 公司战略与风险管理 Corporate Strategy and Risk Management | 48 | 3 | | | | 6 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 实践环节 practical training items | 必修 required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必修 required | 1300024 | 公益劳动 Labouring for Public Benefit | 1w | 0.5 | | | | 5 |
| | 必修 required | 130042a | 课程设计 Course Project | 2w | 1 | | | | 6 |
| | 必修 required | 1302331 | 金工实习 Industrial Practice | 2w | 1 | | | | 3 |
| | 必修 required | 1300904 | 专业实验 Professional Experiments | 2w | 1 | | | | 4 |
| | 必修 required | 1327694 | 生产实习 Engineering Internship | 4w | 2 | | | | 6 |
| | 必修 required | 1327702 | 管理类综合实验（ERP） Management Integrated Experiment(ERP) | 2w | 1 | | | | 6 |
| | 必修 required | 130004a | 毕业设计（论文） Undergraduate Thesis | 16w | 8 | | | | 8 |

# 财务管理专业本科培养计划

# Undergraduate Program for Specialty in Financial Management

## 一、培养目标

## Ⅰ. Program Objective

财务管理专业参照国际一流大学财务金融专业人才的培养模式，结合国际化人才培养的需要，培养具有坚实的经济学基础和数理基础，系统掌握财务金融的基本理论知识与方法以及计算机信息技术，能从事经济金融领域的科学研究、教学、金融创新与管理等方面的工作，富有创新精神的高素质复合型国际人才。2001 年财务管理专业是学校全英语教学的试点专业，通过实施全英语教学，使学生具有较好的英语听、说、读、写能力，具有很好的专业阅读能力。

With reference to the training program of international top universities, the Financial Management program is designed to enable students to be innovative talents with a sound grounding in economics and mathematics and a thorough knowledge in financial markets and financial management in modern organizations. Graduates will be able to do scientific research, teaching, technology development and management in the area of economy and finance. Financial Management program is the experimental unit for English teaching in our university after 2001.Graduates will have a sound grounding of English language in listening, speaking, writing and reading.

## 二、基本规格要求

## Ⅱ. Learning Outcomes

1．坚实的数理基础，严格的科学思维训练；
2．较强的英语语言能力；
3．公司财务金融、公司价值衡量与管理；
4．金融机构的运作与管理；
5．国际金融市场和金融工具的基本知识及分析能力；
6．富有创新精神，具备较高综合素质；

The aims of the program seek to promote the following qualities：
1. Sound grounding and well training in mathematics & physics；
2. Mastery of English language；
3. Theory and methodology in financial management；
4. Skills of operation and management in financial institutions；
5. A sound knowledge of international financial market and financial instruments; and
6. Self-learning ability and innovative thinking.

## 三、培养特色

## Ⅲ. Program Highlights

1、实行通识教育基础上的宽口径专业教育；
2、注重学生专业基础理论知识的教育；
3、注重学生专业基本技能和动手能力的训练；
4、统一性和多样性相结合，体现培养个性化；
5、注重培养学生分析问题和解决问题的能力。

1．This program carries out the general education model of wide scope;

2．This program pays much attention to the education of basic professional theory;

3．This program attaches much importance to the training of basic skills and practice ability;

4．Combine oneness with diversity，indicate the education of individuality;

5．This program highlights the ability of problem analysis and resolve.

## 四、主干学科

## Ⅳ．Major Disciplines

管理学 Management

## 五、学制与学位

## Ⅴ．Program Length and Degree

修业年限：四年

Duration：4 years

授予学位：管理学学士

Degrees Conferred：Bachelor of Management

## 六、学时与学分

## Ⅵ．Credits Hours and Units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：157

Minimum Credits of Curricular (Comprising course system and intensified internship practical training)：157

其中，专业核心课程学分不允许用其他课程学分进行学分冲抵和替代。

Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：5

Minimum Extracurricular Credits：5

1．课程体系学时与学分

Course Credits Hours and Units

| 课程类别 | | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|---|
| 通识教育基础课程 | | 必修 | 784/49 | 34.38 |
| | | 选修 | 160/10 | 7.02 |
| 学科基础课程 | | 必修 | 440/27.5 | 19.30 |
| 专业课程 | 专业核心课程 | 必修 | 736/46 | 32.28 |
| | 专业方向课程 | 选修 | 160/10 | 7.02 |
| 合计 | | | 2280/142.5 | 100 |

| Course Type | | Required/ Elective | Hrs/Crs | Percentage(%) |
|---|---|---|---|---|
| General Education Core Curriculum | | Required | 784/49 | 34.38 |
| | | Elective | 160/10 | 7.02 |
| Discipline-related Courses | | Required | 440/27.5 | 19.30 |
| Major-specific Courses | Core | Required | 736/46 | 32.28 |
| | Elective | Elective | 160/10 | 7.02 |
| Total | | | 2280/142.5 | 100 |

2．集中性实践教学环节周数与学分

Practicum Credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 6.90 |
| 公益劳动 | 必修 | 1/0.5 | 3.45 |
| 金工实习 | 必修 | 2/1 | 6.90 |
| 生产实习 | 必修 | 4/2 | 13.79 |
| 管理类综合实验（ERP） | 必修 | 2/1 | 6.90 |
| 毕业设计（论文） | 必修 | 16/8 | 55.16 |
| 专业实验 | 必修 | 2/1 | 6.90 |
| 合计 | | 29/14.5 | 100 |

| Course Title | Required/ Elective | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 6.90 |
| Laboring for Public Benefit | Required | 1/0.5 | 3.45 |
| Mechanical Engineering Training | Required | 2/1 | 6.90 |
| Engineering Internship | Required | 4/2 | 13.79 |
| Management Integrated Experiment | Required | 2/1 | 6.90 |
| Undergraduate Thesis | Required | 16/8 | 55.16 |
| Professional Experiments | Required | 2/1 | 6.90 |
| Total | | 29/14.5 | 100 |

3. 课外学分

Extracurricular Credits

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 演讲或论文 | 至少参加一次公众演讲或完成一篇规范的论文 | | 1 |
| | 竞赛 | 参加并完成一项科技、文化或体育竞赛 | | 1 |
| | 领导者经历 | 至少有一年领导者经历 | | 1 |
| 2 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 3 | 英语及计算机考试 | 全国大学英语六级考试 | 获六级证书者 | 2 |
| | | 托福、GRE 考试 | 达到相应水平（需认定） | 2 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |
| 4 | 竞赛 | 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 5 | 论文 | 在全国性刊物发表论文 | 每篇论文 | 2~3 |
| 6 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1~3 |
| 7 | 实验 | 视创新情况 | 每项 | 1~3 |

注：在校运动会上参加某项目获得第一名、第二名，等同于校级竞赛一等奖；获得 3－5 名，等同于校级竞赛二等奖；获得 6－8 名，等同于校级竞赛三等奖。

| No. | Extracurricular Activities and Social Practice | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Public Speaking or Article | Attend and finish ONE speech contest or submit a article | | 1 |
| | Competition | Attend and finish ONE competition | | 1 |
| | Leader Experience | as a leader at list ONE year | | 1 |
| 2 | Activities of Social Practice | Submit report and pass oral defense | | 1 |
| | | Entitled as Activist by the Communist Youth League of HUST or Hubei Province;<br>Membership of the group which is entitled as Excellent Social Practice Group by the Communist Youth League of HUST or Hubei Province | | 2 |
| 3 | Examinations in English and Computer | CET-6 | Students whose Band-6 exam scores accord our requirements | 2 |
| | | TOEFL, GRE | Students whose exam scores accord requirements | 2 |
| | | National Computer Rank Examination | Win certificate of Band-2 or higher | 2 |
| | | National Computer Software Qualification | Win certificate of programmer | 2 |
| | | | Win certificate of Advanced Programmer | 3 |
| | | | Win certificate of System Analyst | 4 |
| 4 | Competitions | University Level | Win first prize | 3 |
| | | | Win second prize | 2 |
| | | | Win third prize | 1 |
| | | Provincial Level | Win first prize | 4 |
| | | | Win second prize | 3 |
| | | | Win third prize | 2 |
| | | National Level | Win first prize | 6 |
| | | | Win second prize | 4 |
| | | | Win third prize | 3 |
| 5 | Thesis | Those whose thesis appears in national publications | Per piece | 2~3 |
| 6 | Scientific Research | Depending on both the time spent in and ability demonstrated in scientific research project | Each item | 1~3 |
| 7 | Experiments | Depending on innovative extent | Each item | 1~3 |

Note: In HUST Sports Meeting, the first and the second prize, the third to the fifth prize, and the sixth prize to the eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## Ⅶ. Main Courses

管理经济学 Managerial Economics、宏观经济学 Macro-economics、财务会计学 Financial Accounting、财务管理 Financial Management、市场营销学 Marketing、运作管理 Operations Management、组织行为与管理 Organizational Behavior and Management、运筹学 Operations Research、计量经济学 Econometrics、税制与税务 Tax syetem and Taxation、金融经济学 Foundations for Financial Economics、博弈论 Game Theory、财务分析与证券估值 Financial Analysis and Security Valuation、固定收益证券 Fixed Income Securities、高级财务管理 Advanced Financial Management、投资学 Investment、期权、期货和其他衍生工具 Options, Futures and Other Derivatives

## 八、主要实践教学环节（含专业试验）

## Ⅷ. Practicum Module（experiments included）

军事训练 Military Training、公益劳动 Labouring for Public Benefit、金工实习 Industrial Practice、专业实习 Professional Social Practice、生产实习 Engineering Internship、毕业设计 Undergraduate Thesis

## 九、教学进程计划表

## Ⅸ. Course Schedule

院（系）：管理学院　　专业：财务管理

School(Department): School of Management　　Specialty: Financial Management

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必修 required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必修 required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必修 required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必修 required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必修 required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必修 required | 0100741 | 形势与政策 Current Affairs and Policy | 32 | 2 | 14 | | | 1—6 |
| | 必修 required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | 必修 required | 0508453 | 综合英语（一） College English （Ⅰ） | 56 | 3.5 | | | | 1 |
| | 必修 required | 0508463 | 综合英语（二） College English （Ⅱ） | 56 | 3.5 | | | | 2 |
| | 必修 required | 0700011 | 微积分（一）上 Calculus（Ⅰ） | 88 | 5.5 | | | | 1 |
| | 必修 required | 0700012 | 微积分（一）下 Calculus（Ⅰ） | 88 | 5.5 | | | | 2 |
| | 必修 required | 0833174 | 数据库技术及应用 Database Techniques and Their Applications | 32 | 2 | | 8 | | 2 |
| | 必修 required | 0400111 | 大学体育（一） Physical Education（Ⅰ） | 32 | 1 | | | | 1 |
| | 必修 required | 0400121 | 大学体育（二） Physical Education（Ⅱ） | 32 | 1 | | | | 2 |
| | 必修 required | 0400131 | 大学体育（三） Physical Education（Ⅲ） | 32 | 1 | | | | 3 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必修 required | 0400141 | 大学体育（四） Physical Education(Ⅳ) | 32 | 1 | | | | 4 |
| | 必修 required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 7 |
| | 必修 required | 0700054 | 线性代数 Linear Algebra | 40 | 2.5 | | | | 2 |
| | 必修 required | 0700063 | 概率论与数理统计（三） Probability and Mathematics（Ⅲ） | 40 | 2.5 | | | | 3 |
| | 必修 required | 0827781 | 计算机与程序设计基础（C++） Advanced Programming Language (C++) | 48 | 3 | | 8 | | 1 |
| | | | 人文社科类选修课程 Electives in Humanities and Social Science | 160 | 10 | | | | |
| 学科大类基础课程 Discipline-related General Courses | 必修 required | 0400027 | 学科（专业）概论 Introduction to Discipline | 16 | 1 | | | | 1 |
| | 必修 required | 1204671 | 组织行为与管理 Organizational Behavior and Management | 48 | 3 | | | | 2 |
| | 必修 required | 1200024 | 会计学原理 Accounting | 48 | 3 | | | | 1 |
| | 必修 required | 0201181 | 微观经济学（I） Micro-Economics | 48 | 3 | | | | 1 |
| | 必修 required | 0200023 | 宏观经济学 Macro-Economics | 40 | 2.5 | | | | 3 |
| | 必修 required | 0702412 | 运筹学（一） Operations Research（Ⅰ） | 64 | 4 | | 8 | | 3 |
| | 必修 required | 1200052 | 财务管理 Financial Management | 40 | 2.5 | | | | 4 |
| | 必修 required | 1200091 | 市场营销学 Marketing | 40 | 2.5 | | 8 | | 3 |
| | 必修 required | 1200121 | 运作管理 Operations Management | 40 | 2.5 | | | | 4 |
| | 必修 required | 1200042 | 管理信息系统 Management Information Systems | 40 | 2.5 | | 8 | | 4 |
| | 必修 required | 0200303 | 学科发展前沿专题研究 Current Issues in Management Subject | 16 | 1 | | | | 7 |
| 专业核心课程 Major Core Courses | 必修 required | 1203702 | 财务会计 Financial Accounting | 48 | 3 | | | | 3 |
| | 必修 required | 0200161 | 金融市场与金融机构 Financial Markets and Financial Institutions | 32 | 2 | | | | 3 |
| | 必修 required | 1204951 | 税制与税务 Tax syetem and Taxation | 48 | 3 | | | | 4 |
| | 必修 required | 0200752 | 金融经济学 Foundations for Financial Economics | 40 | 2.5 | | | | 5 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业核心课程 Major Core Courses | 必修 required | 0200393 | 证券投资学 Securities investment | 32 | 2 | | | | 5 |
| | 必修 required | 1200058 | 财务管理（二） Financial Management（Ⅱ） | 32 | 2 | | | | 5 |
| | 必修 required | 0201191 | 微观经济学（Ⅱ） Micro-economics（Ⅱ） | 32 | 2 | | | | 5 |
| | 必修 required | 1204961 | 财务成本管理 Financial and Cost Managemen | 32 | 2 | | | | 4 |
| | 必修 required | 0200791 | 固定收益证券 Fixed Income Securities | 32 | 2 | | | | 5 |
| | 必修 required | 1204711 | 高级投资学 Advanced Investment and Portfolio Management | 32 | 2 | | 16 | | 5 |
| | 必修 required | 1203711 | 高级财务管理 Strategic Financial Management | 32 | 2 | | | | 5 |
| | 必修 required | 1204971 | 财务分析与证券估值 Financial Analysis and Security Valuation | 32 | 2 | | | | 6 |
| | 必修 required | 1204981 | 金融学专题研究 Special Research of Finance | 32 | 2 | | | | 6 |
| | 必修 required | 0200435 | 金融工程 Financial Engineering | 40 | 2.5 | | | | 5 |
| | 必修 required | 0202011 | 行为金融学基础 Behavioral Finances | 32 | 2 | | | | 5 |
| | 必修 required | 1202223 | 财务金融实验 Financial Experiments | 32 | 2 | | 16 | | 6 |
| | 必修 required | 1204701 | 财务会计理论 Accounting Theory | 32 | 2 | | | | 6 |
| | 必修 required | 1204991 | 兼并与收购 Mergers and Acquisitions | 32 | 2 | | | | 6 |
| | 必修 required | 1201002 | 风险管理 Risk Managemen | 32 | 2 | | | | 6 |
| | 必修 required | 0200094 | 计量经济学 Econometrics | 48 | 3 | | 8 | | 6 |
| | 必修 required | 0200734 | 期权、期货与其他衍生工具 Options, Futures and Other Derivatives | 32 | 2 | | | | 6 |
| 专业选修课（模块一） Major-specific Electives(Module I) | | | 专业选修课（160/10，其中模块一中至少任选一门。） | | | | | | |
| | 选 修 Elective | 0812071 | 博弈论 Game Theory | 32 | 2 | | | | 5 |
| | 选 修 Elective | 1201993 | 管理统计学 Management Statistics | 32 | 2 | | | | 4 |
| | 选 修 Elective | 1203981 | 商业数据分析与挖掘 Business Data Analysis and Mining | 40 | 2.5 | | | | 6 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业选修课（模块II）Major-specific Electives(Module II) | 选 修 Elective | 1205001 | 行为经济与管理 Behavional Economy and Management | 32 | 2 | | | | 6 |
| | 选 修 Elective | 1205011 | 企业税收与实务 Enterprise Tax and Practice | 32 | 2 | | | | 4 |
| | 选 修 Elective | 1204761 | 城市物流 City Logistics | 32 | 2 | | | | 5 |
| | 选 修 Elective | 1205021 | 供应链金融与风险管理 Supply Chain Finance & Risk Management | 32 | 2 | | | | 6 |
| | 选 修 Elective | 1200375 | 供应链管理（I） Supply Chain Management(I) | 32 | 2 | | | | 6 |
| | 选 修 Elective | 1200352 | 人力资源管理 Human Resource Management | 32 | 2 | | | | 5 |
| | 选 修 Elective | 1205031 | 公共关系礼仪 Public Relationship Etiquette | 32 | 2 | | | | 7 |
| | 选 修 Elective | 1205041 | 领导力提升 Leadership Skills | 32 | 2 | | | | 7 |
| | 选 修 Elective | 0827797 | 计算机与程序设计基础（VB） Advanced Programming Language（VB） | 40 | 2.5 | | | | 1 |
| | 选 修 Elective | 1201441 | 国际贸易实务 International Trade and Practice | 32 | 2 | | | | 5 |
| | 选 修 Elective | 1205051 | 社会网络分析 Social Network Analysis | 32 | 2 | | | | 4 |
| | 选 修 Elective | 1203751 | 商业伦理 Business Ethics | 32 | 2 | | | | 5 |
| | 选 修 Elective | 0300053 | 经济法 Law of Economy | 32 | 2 | | | | 4 |
| | 选 修 Elective | 1204331 | 企业内部控制 Internal Control | 32 | 2 | | | | 4 |
| | 选 修 Elective | 1204361 | 高级财务成本管理 Advanced Financial and Cost Management | 48 | 3 | | | | 5 |
| | 选 修 Elective | 1204282 | 公司战略与风险管理 Corporate Strategy and Risk Management | 48 | 3 | | | | 6 |
| 实践环节 practical training items | 必修 required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必修 required | 1300024 | 公益劳动 Labouring for Public Benefit | 1w | 0.5 | | | | 5 |
| | 必修 required | 1302331 | 金工实习 Industrial Practice | 2w | 1 | | | | 3 |
| | 必修 required | 1300904 | 专业实验 Professional Experiments | 2w | 1 | | | | 4 |
| | 必修 required | 1327694 | 生产实习 Engineering Internship | 4w | 2 | | | | 6 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必修 required | 1327702 | 管理类综合实验（ERP） Management Integrated Experiment(ERP) | 2w | 1 | | | | 6 |
| | 必修 required | 130004a | 毕业设计（论文） Undergraduate Thesis | 16w | 8 | | | | 8 |

# 会计学专业本科培养计划
# Undergraduate Program for Specialty in Accounting

## 一、培养目标
## Ⅰ. Program Objective

会计学专业遵循“学历教育与国际（国内）注册会计师执业证书教育相结合”的培养模式，包括会计学 ACCA 方向和会计学 CPA 方向。

会计学专业（ACCA 方向）是融合现代化会计专业知识体系和职业教育内容，与国际接轨的创新型专业。采用英文原版教材全英文（双语）授课，旨在培养具有 ACCA（特许公认会计师公会）执业资格，知识面广博，专业技能精深，适应现代商务需要，能在各大型跨国公司、会计师事务所或证券金融等行业从事高级管理事务的高级会计人才。

会计学专业（CPA 方向）面向国内注册会计师职业市场，旨在培养具有 CPA（中国注册会计师）执业资格，熟练掌握现代会计管理方法和技术，通晓会计准则、财务通则，具有良好的诚信品德和职业道德素养，基础扎实、专业面宽、综合能力强的高级会计人才，成为中国注册会计师行业的优秀后备资源。

The Accounting program is designed to follow the training program of combination of academic education and the international (domestic) Certified Public Accountant certificate education, including ACCA and CPA.

The Accounting (ACCA) program is an innovative specialty achieved with international convergence, which is the integration of modern accounting knowledge system and vocational education. This program, using textbooks of English edition in English (bilingual) teaching, is designed to enable students to be professional with ACCA (the Association of Chartered Certified Accountants) qualification and to own extensive knowledge and intensive expertise. Graduates can meet modern business needs and be engaged in senior management affairs in the large multinational corporations, accounting firms or securities.

Under the Certified Public Accountant constitution, a domestic professional market, the objectives of the accounting (CPA) are:

(a) to enable our students to be professional with CPA qualification

(b) to prepare students to be specialist with a sound grounding in the modern accounting management methods and techniques, knowledge of accounting principles and financial standards

(c) to enable students, as comprehensive senior accounting personnel and CPA profession's best reserve, to be innovative talents with good moral character and integrity professional ethics, well-grounded and a breadth of professional knowledge.

## 二、基本规格要求
## Ⅱ. Learning Outcomes

会计学专业（ACCA 方向、CPA 方向）学生主要学习会计、审计和工商管理的基础理论和基础知识，接受会计、审计方法与技能方面的基本训练，培养具有分析和解决问题的基本能力。会计学专业毕业生应获得以下几方面的知识和能力：

1. 掌握管理学、经济学、会计学和审计学的基础理论知识；

2. 掌握会计学的定性、定量分析方法；

3. 具有较强的语言与文字表达能力、人际沟通能力、信息获取能力以及分析和解决问题的基本能力；

4. 熟悉国内外会计准则、审计准则及相关的政策法规；

5. 了解本学科的理论前沿及发展动态。

As a student of this program, you will gain：

1. Knowledge of management science, economics, accountancy and auditing；

2. Skills of qualitative and quantitative analysis in accountancy；

3. The ability and confidence to use mother language, essential skills for effective communication, ability to gather information, and to identify and solve problems；

4. Understanding the accounting guideline、auditing guideline and relating regulations and laws;

5. This program highlights the ability of problem analysis and resolve.

## 三、培养特色

## Ⅲ. Program Highlights

1、实行通识教育基础上的宽口径专业教育；

2、注重学生专业基础理论知识的教育；

3、注重学生专业基本技能和动手能力的训练；

4、统一性和多样性相结合，体现培养个性化；

5、注重培养学生分析问题和解决问题的能力。

1. This program carries out the general education model of wide scope;

2. This program pays much attention to the education of basic professional theory;

3. This program attaches much importance to the training of basic skills and practice ability;

4. Combine oneness with diversity, indicate the education of individuality;

5. This program highlights the ability of problem analysis and resolve.

## 四、主干学科

## Ⅳ. Major Disciplines

管理学 Management

## 五、学制与学位

## Ⅴ. Program Length and Degree

修业年限：四年

Duration：4 years

授予学位：管理学学士

Degrees Conferred：Bachelor of Management

## 六、学时与学分

## Ⅵ. Credits Hours and Units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：170

Minimum Credits of Curricular (Comprising course system and intensified internship practical training)：170

其中，专业核心课程学分不允许用其他课程学分进行学分冲抵和替代。

Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：5

Minimum Extracurricular Credits：5

1. 课程体系学时与学分

Course Credits Hours and Units

| 课程类别 | | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|---|
| 通识教育基础课程 | | 必修 | 784/49 | 32.03 |
| | | 选修 | 160/10 | 6.54 |
| 学科基础课程 | | 必修 | 440/27.5 | 17.97 |
| 专业课程 | 专业核心课程 | 必修 | 904/56.5 | 36.92 |
| | 专业方向课程 | 选修 | 160/10 | 6.54 |
| 合计 | | | 2448/153 | 100 |

| Course Type | | Required/ Elective | Hrs/Crs | Percentage(%) |
|---|---|---|---|---|
| General Education Core Curriculum | | Required | 784/49 | 32.03 |
| | | Elective | 160/10 | 6.54 |
| Discipline-related Courses | | Required | 440/27.5 | 17.97 |
| Major-specific Courses | Core | Required | 904/56.5 | 36.92 |
| | Elective | Elective | 160/10 | 6.54 |
| Total | | | 2448/153 | 100 |

2. 集中性实践教学环节周数与学分

Practicum Credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 5.88 |
| 公益劳动 | 必修 | 1/0.5 | 2.94 |
| 金工实习 | 必修 | 2/1 | 5.88 |
| 生产实习 | 必修 | 4/2 | 11.76 |
| 管理类综合实验（ERP） | 必修 | 2/1 | 5.88 |
| 毕业设计（论文） | 必修 | 16/8 | 47.06 |
| 会计信息化 | 必修 | 5/2.5 | 14.71 |
| 专业实验 | 必修 | 2/1 | 5.88 |
| 合计 | | 34/17 | 100 |

| Course Title | Required/ Elective | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 5.88 |
| Laboring for Public Benefit | Required | 1/0.5 | 2.94 |
| Mechanical Engineering Training | Required | 2/1 | 5.88 |
| Engineering Internship | Required | 4/2 | 11.76 |
| Management Integrated Experiment | Required | 2/1 | 5.88 |
| Undergraduate Thesis | Required | 16/8 | 47.06 |
| Accounting Information | Required | 5/2.5 | 14.71 |
| Professional Experiments | Required | 2/1 | 5.88 |
| Total | | 34/17 | 100 |

3. 课外学分

Extracurricular Credits

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 演讲或论文 | 至少参加一次公众演讲或完成一篇规范的论文 | | 1 |
| | 竞赛 | 参加并完成一项科技、文化或体育竞赛 | | 1 |
| | 领导者经历 | 至少有一年领导者经历 | | 1 |
| 2 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 3 | 英语及计算机考试 | 全国大学英语六级考试 | 获六级证书者 | 2 |
| | | 托福、GRE 考试 | 达到相应水平（需认定） | 2 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |
| 4 | 竞赛 | 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 5 | 论文 | 在全国性刊物发表论文 | 每篇论文 | 2~3 |
| 6 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1~3 |
| 7 | 实验 | 视创新情况 | 每项 | 1~3 |

注：在校运动会上参加某项目获得第一名、第二名，等同于校级竞赛一等奖；获得 3－5 名，等同于校级竞赛二等奖；获得 6－8 名，等同于校级竞赛三等奖。

| No. | Extracurricular Activities and Social Practice | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Public Speaking or Article | Attend and finish ONE speech contest or submit a article | | 1 |
| | Competition | Attend and finish ONE competition | | 1 |
| | Leader Experience | as a leader at list ONE year | | 1 |
| 2 | Activities of Social Practice | Submit report and pass oral defense | | 1 |
| | | Entitled as Activist by the Communist Youth League of HUST or Hubei Province;<br>Membership of the group which is entitled as Excellent Social Practice Group by the Communist Youth League of HUST or Hubei Province | | 2 |
| 3 | Examinations in English and Computer | CET-6 | Students whose Band-6 exam scores accord our requirements | 2 |
| | | TOEFL, GRE | Students whose exam scores accord requirements | 2 |
| | | National Computer Rank Examination | Win certificate of Band-2 or higher | 2 |
| | | National Computer Software Qualification | Win certificate of programmer | 2 |
| | | | Win certificate of Advanced Programmer | 3 |
| | | | Win certificate of System Analyst | 4 |

continue

| No. | Extracurricular Activities and Social Practice | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 4 | Competitions | University Level | Win first prize | 3 |
| | | | Win second prize | 2 |
| | | | Win third prize | 1 |
| | | Provincial Level | Win first prize | 4 |
| | | | Win second prize | 3 |
| | | | Win third prize | 2 |
| | | National Level | Win first prize | 6 |
| | | | Win second prize | 4 |
| | | | Win third prize | 3 |
| 5 | Thesis | Those whose thesis appears in national publications | Per piece | 2~3 |
| 6 | Scientific Research | Depending on both the time spent in and ability demonstrated in scientific research project | Each item | 1~3 |
| 7 | Experiments | Depending on innovative extent | Each item | 1~3 |

Note: In HUST Sports Meeting, the first and the second prize, the third to the fifth prize, and the sixth prize to the eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## Ⅶ. Main Courses

管理经济学 Managerial Economics、宏观经济学 Macro-economics、财务会计学 Financial Accounting、财务管理 Financial Management、市场营销学 Marketing、运作管理 Operations Management、组织行为与管理 Organizational Behavior and Management、经济法 Law of Economy、运筹学 Operations Research、计量经济学 Econometrics、中国税制 Tax System of China、金融经济学 Foundations for Financial Economics、博弈论 Game Theory

## 八、主要实践教学环节（含专业试验）

## Ⅷ. Practicum Module（experiments included）

军事训练 Military Training、公益劳动 Labouring for Public Benefit、金工实习 Industrial Practice、专业实习 Professional Social Practice、生产实习 Engineering Internship、毕业设计 Undergraduate Thesis

## 九、教学进程计划表

## Ⅸ. Course Schedule

院（系）：管理学院　　专业：会计学

School(Department): School of Management　　Specialty: Accounting

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必修 required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必修 required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必修 required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必修 required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必修 required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必修 required | 0100741 | 形势与政策 Current Affairs and Policy | 32 | 2 | 14 | | | 1—6 |
| | 必修 required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | 必修 required | 0508453 | 综合英语（一） College English （Ⅰ） | 56 | 3.5 | | | | 1 |
| | 必修 required | 0508463 | 综合英语（二） College English （Ⅱ） | 56 | 3.5 | | | | 2 |
| | 必修 required | 0700011 | 微积分（一）上 Calculus（Ⅰ） | 88 | 5.5 | | | | 1 |
| | 必修 required | 0700012 | 微积分（一）下 Calculus（Ⅰ） | 88 | 5.5 | | | | 2 |
| | 必修 required | 0833174 | 数据库技术及应用 Database Techniques and Their Applications | 32 | 2 | | 8 | | 2 |
| | 必修 required | 0400111 | 大学体育（一） Physical Education(Ⅰ) | 32 | 1 | | | | 1 |
| | 必修 required | 0400121 | 大学体育（二） Physical Education(Ⅱ) | 32 | 1 | | | | 2 |
| | 必修 required | 0400131 | 大学体育（三） Physical Education(Ⅲ) | 32 | 1 | | | | 3 |
| | 必修 required | 0400141 | 大学体育（四） Physical Education(Ⅳ) | 32 | 1 | | | | 4 |
| | 必修 required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 7 |
| | 必修 required | 0700054 | 线性代数 Linear Algebra | 40 | 2.5 | | | | 2 |
| | 必修 required | 0700063 | 概率论与数理统计（三） Probability and Mathematics（Ⅲ） | 40 | 2.5 | | | | 3 |
| | 必修 required | 0827781 | 计算机与程序设计基础（C++） Advanced Programming Language (C++) | 48 | 3 | | 8 | | 1 |
| | | | 人文社科类选修课程 Electives in Humanities and Social Science | 160 | 10 | | | | |
| | 必修 required | 0400027 | 学科（专业）概论 Introduction to Discipline | 16 | 1 | | | | 1 |
| | 必修 required | 1204671 | 组织行为与管理 Organizational Behavior and Management | 48 | 3 | | | | 2 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 学科（大类）基础课程 Discipline-related General Courses | 必修 required | 1200024 | 会计学原理 Accounting | 48 | 3 | | | | 1 |
| | 必修 required | 0201181 | 微观经济学（I） Micro-Economics | 48 | 3 | | | | 1 |
| | 必修 required | 0200023 | 宏观经济学 Macro-Economics | 40 | 2.5 | | | | 3 |
| | 必修 required | 0702412 | 运筹学（一） Operations Research（Ⅰ） | 64 | 4 | | 8 | | 3 |
| | 必修 required | 1200052 | 财务管理 Financial Management | 40 | 2.5 | | | | 4 |
| | 必修 required | 1200091 | 市场营销学 Marketing | 40 | 2.5 | | 8 | | 3 |
| | 必修 required | 1200121 | 运作管理 Operations Management | 40 | 2.5 | | | | 4 |
| | 必修 required | 1200042 | 管理信息系统 Management Information Systems | 40 | 2.5 | | 8 | | 4 |
| | 必修 required | 0200303 | 学科发展前沿专题研究 Current Issues in Management Subject | 16 | 1 | | | | 7 |
| 专业核心课程 Major Core Courses | 必修 required | 1203253 | 中级财务会计（上） Financial Accounting（Ⅰ） | 40 | 2.5 | | | | 1（CPA 方向第二学期） |
| | 必修 required | 1203252 | 中级财务会计（下） Financial Accounting（Ⅱ） | 64 | 4 | | | | 2（CPA 方向第三学期） |
| | 必修 required | 1203762 | 业绩管理 Performance Management | 48 | 3 | | | | 2 |
| | 必修 required | 0200161 | 金融市场与金融机构 Financial Markets and Financial Institutions | 32 | 2 | | | | 3 |
| | 必修 required | 1204951 | 税制与税务 Tax syetem and Taxation | 48 | 3 | | | | 4 |
| | 必修 required | 1204391 | 企业税务 Taxation | 48 | 3 | | | | 3 |
| | 必修 required | 1200882 | 管理会计 Management Accounting | 48 | 3 | | | | 2（CPA 方向第四学期） |
| | 必修 required | 1204411 | 高级业绩管理 Advanced Performance Management | 48 | 3 | | | | 6 |
| | 必修 required | 0200421 | 财务报表分析 Financial Reporting Analysis | 32 | 2 | | | | 5 |
| | 必修 required | 0200393 | 证券投资学 Securities investment | 32 | 2 | | | | 5 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业核心课程 Major Core Courses | 必修 required | 0201191 | 微观经济学（Ⅱ） Micro-economics（Ⅱ） | 32 | 2 | | | | 5 |
| | 必修 required | 1200895 | 审计学 Auditing | 64 | 4 | | | | 4 |
| | 必修 required | 1203803 | 财务成本管理 Financial and Cost Management | 64 | 4 | | | | 4 |
| | 必修 required | 0201172 | 财务报告 Financial Reporting | 64 | 4 | | | | 3（CPA 方向第四学期） |
| | 必修 required | 1203714 | 高级财务管理 Advanced Financial Management | 48 | 3 | | | | 6 |
| | 必修 required | 1205061 | 政府和非营利组织会计 Budgetary Accounting | 32 | 2 | | | | 6 |
| | 必修 required | 1204431 | 职业会计师 Governance, Risk and Ethics | 48 | 3 | | | | 5 |
| | 必修 required | 1204062 | 国际财务报告准则 Corporate Reporting | 48 | 3 | | | | 5 |
| | 必修 required | 1203664 | 高级审计学 Advanced Auditing | 32 | 2 | | | | 7 |
| | 必修 required | 0510721 | CPA 英语 Professional English | 32 | 2 | | | | 7 |
| 专业选修课（模块Ⅰ）Major-specific Electives(Module I) | | | 专业选修课（160/10，其中模块一中至少任选一门。） | | | | | | |
| | 选 修 Elective | 0812071 | 博弈论 Game Theory | 32 | 2 | | | | 5 |
| | 选 修 Elective | 1201993 | 管理统计学 Management Statistics | 32 | 2 | | | | 4 |
| | 选 修 Elective | 200094 | 计量经济学 Econometrics | 48 | 3 | | | | 6 |
| | 选 修 Elective | 1203981 | 商业数据分析与挖掘 Business Data Analysis and Mining | 40 | 2.5 | | | | 6 |
| 专业选修课（模块Ⅱ）Major-specific Electives(Module II) | 选 修 Elective | 1205001 | 行为经济与管理 Behavional Economy and Management | 32 | 2 | | | | 6 |
| | 选 修 Elective | 1205011 | 企业税收与实务 Enterprise Tax and Practice | 32 | 2 | | | | 4 |
| | 选 修 Elective | 1204761 | 城市物流 City Logistics | 32 | 2 | | | | 5 |
| | 选 修 Elective | 1205021 | 供应链金融与风险管理 Supply Chain Finance & Risk Management | 32 | 2 | | | | 6 |
| | 选 修 Elective | 1200375 | 供应链管理（I） Supply Chain Management(I) | 32 | 2 | | | | 6 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业选修课（模块二）Major-specific Electives(Module II) | 选 修 Elective | 1200352 | 人力资源管理 Human Resource Management | 32 | 2 | | | | 5 |
| | 选 修 Elective | 1205031 | 公共关系礼仪 Public Relationship Etiquette | 32 | 2 | | | | 7 |
| | 选 修 Elective | 1205041 | 领导力提升 Leadership Skills | 32 | 2 | | | | 7 |
| | 选 修 Elective | 0827797 | 计算机与程序设计基础（VB） Advanced Programming Language（VB） | 40 | 2.5 | | | | 1 |
| | 选 修 Elective | 1201411 | 国际贸易实务 International Trade and Practice | 32 | 2 | | | | 5 |
| | 选 修 Elective | 1205051 | 社会网络分析 Social Network Analysis | 32 | 2 | | | | 4 |
| | 选 修 Elective | 1203751 | 商业伦理 Business Ethics | 32 | 2 | | | | 5 |
| | 选 修 Elective | 0300053 | 经济法 Law of Economy | 32 | 2 | | | | 4 |
| | 选 修 Elective | 1204331 | 企业内部控制 Internal Control | 32 | 2 | | | | 4 |
| | 选 修 Elective | 1204361 | 高级财务成本管理 Advanced Financial and Cost Management | 48 | 3 | | | | 5 |
| | 选 修 Elective | 1204282 | 公司战略与风险管理 Corporate Strategy and Risk Management | 48 | 3 | | | | 6 |
| 实践环节 practical training items | 必修 required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必修 required | 1300024 | 公益劳动 Labouring for Public Benefit | 1w | 0.5 | | | | 5 |
| | 必修 required | 1302331 | 金工实习 Industrial Practice | 2w | 1 | | | | 3 |
| | 必修 required | 1300904 | 专业实验 Professional Experiments | 2w | 1 | | | | 4 |
| | 必修 required | 1327694 | 生产实习 Engineering Internship | 4w | 2 | | | | 6 |
| | 必修 required | 1327702 | 管理类综合实验（ERP） Management Integrated Experiment(ERP) | 2w | 1 | | | | 6 |
| | 必修 required | 1306091 | 会计信息化 Accounting Information | 5w | 2.5 | | | | 6 |
| | 必修 required | 130004a | 毕业设计（论文） Undergraduate Thesis | 16w | 8 | | | | 8 |

# 财政学专业本科培养计划
# Undergraduate Program for Specialty in Public Finance

## 一、培养目标
## Ⅰ. Program Objective

财政学专业培养具备财政税收基本知识和相关理论及实践能力的专业人才。本专业要求学生了解财政学发展及中国税收制度的沿革和发展，掌握各税种的实质和内容，并将所学的理论知识灵活运用于企业税收筹划与税收征收管理，同时熟悉如社会保障等财政学领域的新兴问题。本专业培养的学生可到各类企业、跨国公司、证券机构从事税收筹划工作，也可到财政局、税务局等国家机构从事相关的税收管理工作，还可以到高等院校、科研单位从事教学和科研工作。

Public finance is to train professionals with fundamental knowledge of public finance & taxation and abilities to put related theories into practice. We require students to understand the history and development of public finance and the tax policies in China, to master the essential and contents of all kinds of taxes and smartly put them into enterprises' tax planning and tax levying & management, meanwhile to get familiar with the newly-built issues concerning public finance such as social security. Our students are expected to handle tax planning in all kinds of enterprises, cross national companies and securities, to handle tax management in public finance bureaus and revenues, also to handle teaching and researching in higher education and research institutions.

## 二、基本规格要求
## Ⅱ. Learning Outcomes

财政学专业学生主要学习财政学、经济学和企业管理的基础理论和基本知识，受到税收征收管理及企业税收管理及技能方面的训练，具有分析和解决国家财政政策、税收政策及企业理财和税收实践方面问题的基本能力。财政学专业培养学生以下几方面的知识和能力：

1. 掌握财政学的基础理论，具备进行宏观经济管理和分析宏观经济问题的能力和素质；
2. 掌握税收理论和实践基础知识，既具备从事税收征收管理、税收政策和经济分析的能力，也具备在企业进行税收管理的素质；
3. 掌握财务管理、会计学等方面的专业知识，具备企业财务管理专业人才的基本素质；
4. 掌握现代信息技术，掌握管理信息系统的分析方法、设计方法和实现技术，并能运用于计算机辅助税务管理、计算机辅助财务管理的实践；
5. 掌握经济法、组织行为理论、市场营销等多方面的专业知识和技能；
6. 具有良好的人际沟通能力、英语应用能力，适应复杂工作环境的应变能力；
7. 熟悉我国财政和税收领域的有关政策和法规以及国际上的相关规定；
8. 了解本学科的理论前沿和发展动态；
9. 掌握文献检索、资料查询的基本方法，具有初步的科学研究和实际工作能力。

Public Finance：

Our students mainly focus on basic theories and knowledge of public finance, economics and enterprise management. They will get the training of taxation levying & management and the management skills of enterprises' taxation management. Then they will have the basic abilities in both analyzing and solving the public finance policies and tax policies of our country and enterprises' financing and tax practicing. Students are supposed to：

1. Master the basic theory of public finance and have the ability and power to conduct

macroeconomics management and to analyze macroeconomics issues ;

2. Master tax theories and tax practicing knowledge, gain the ability to handle taxation levying & management, tax policies and economics analyzing ;

3. Master professional knowledge of finance management and accounting, gain the fundamental power of being a professional on finance management in an enterprise ;

4. Master modern information technology and the analyzing method, designing method and realizing technology of MIS, and put them into practice for the computer aided taxation management and the computer aided finance management ;

5. Master the professional knowledge and skills of economic law, and theory of organizational behavior and marketing ;

6. Get the ability of good communication with others and using English as well as the ability to acclimatize themselves to the complicated working situations ;

7. Understand the related policies, regulations and laws of public finance and taxation in China and the related international regulation ;

8. Understand its current stage of development and the trend of related subjects ; and

9. Acquire the skills to search documents and data, and abilities to do scientific research and practical job.

## 三、培养特色

## Ⅲ. Program Highlights

1、实行通识教育基础上的宽口径专业教育 ;

2、注重学生专业基础理论知识的教育 ;

3、注重学生专业基本技能和动手能力的训练 ;

4、统一性和多样性相结合，体现培养个性化 ;

5、注重培养学生分析问题和解决问题的能力。

1. This program carries out the general education model of wide scope;

2. This program pays much attention to the education of basic professional theory;

3. This program attaches much importance to the training of basic skills and practice ability;

4. Combine oneness with diversity, indicate the education of individuality;

5. This program highlights the ability of problem analysis and resolve.

## 四、主干学科

## Ⅳ. Major Disciplines

管理学 Management

## 五、学制与学位

## Ⅴ. Program Length and Degree

修业年限：四年

Duration : 4 years

授予学位：经济学学士

Degrees Conferred : Bachelor of Management

## 六、学时与学分

## Ⅵ. Credits Hours and Units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：155

Minimum Credits of Curricular (Comprising course system and intensified internship practical training)：155

其中，专业核心课程学分不允许用其他课程学分进行学分冲抵和替代。

Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：5

Minimum Extracurricular Credits：5

1. 课程体系学时与学分

Course Credits Hours and Units

| 课程类别 | | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|---|
| 通识教育基础课程 | | 必修 | 784/49 | 35.38 |
| | | 选修 | 160/10 | 7.22 |
| 学科基础课程 | | 必修 | 440/27.5 | 19.86 |
| 专业课程 | 专业核心课程 | 必修 | 672/42 | 30.32 |
| | 专业方向课程 | 选修 | 160/10 | 7.22 |
| 合计 | | | 2216/138.5 | 100 |

| Course Type | | Required/ Elective | Hrs/Crs | Percentage(%) |
|---|---|---|---|---|
| General Education Core Curriculum | | Required | 784/49 | 35.38 |
| | | Elective | 160/10 | 7.22 |
| Discipline-related Courses | | Required | 440/27.5 | 19.86 |
| Major-specific Courses | Core | Required | 672/42 | 30.32 |
| | Elective | Elective | 160/10 | 7.22 |
| Total | | | 2216/138.5 | 100 |

2. 集中性实践教学环节周数与学分

Practicum Credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 6.06 |
| 公益劳动 | 必修 | 1/0.5 | 3.03 |
| 金工实习 | 必修 | 2/1 | 6.06 |
| 生产实习 | 必修 | 4/2 | 12.12 |
| 管理类综合实验（ERP） | 必修 | 2/1 | 6.06 |
| 毕业设计（论文） | 必修 | 16/8 | 48.49 |
| 税收综合实践 | 必修 | 2/1 | 6.06 |
| 课程设计 | 必修 | 2/1 | 6.06 |
| 专业实验 | 必修 | 2/1 | 6.06 |
| 合计 | | 33/16.5 | 100 |

| Course Title | Required/ Elective | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 6.06 |
| Laboring for Public Benefit | Required | 1/0.5 | 3.03 |
| Mechanical Engineering Training | Required | 2/1 | 6.06 |
| Engineering Internship | Required | 4/2 | 12.12 |
| Management Integrated Experiment | Required | 2/1 | 6.06 |
| Undergraduate Thesis | Required | 16/8 | 48.49 |
| Comprehensive experiment of Taxation | Required | 2/1 | 6.06 |
| Course Project | Required | 2/1 | 6.06 |
| Professional Experiments | Required | 2/1 | 6.06 |
| Total | | 33/16.5 | 100 |

3. 课外学分

Extracurricular Credits

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 演讲或论文 | 至少参加一次公众演讲或完成一篇规范的论文 | | 1 |
| | 竞赛 | 参加并完成一项科技、文化或体育竞赛 | | 1 |
| | 领导者经历 | 至少有一年领导者经历 | | 1 |
| 2 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 3 | 英语及计算机考试 | 全国大学英语六级考试 | 获六级证书者 | 2 |
| | | 托福、GRE 考试 | 达到相应水平（需认定） | 2 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |
| 4 | 竞赛 | 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 5 | 论文 | 在全国性刊物发表论文 | 每篇论文 | 2~3 |
| 6 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1~3 |
| 7 | 实验 | 视创新情况 | 每项 | 1~3 |

注：在校运动会上参加某项目获得第一名、第二名，等同于校级竞赛一等奖；获得 3－5 名，等同于校级竞赛二等奖；获得 6－8 名，等同于校级竞赛三等奖。

| No. | Extracurricular Activities and Social Practice | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Public Speaking or Article | Attend and finish ONE speech contest or submit a article | | 1 |
| | Competition | Attend and finish ONE competition | | 1 |
| | Leader Experience | as a leader at list ONE year | | 1 |
| 2 | Activities of Social Practice | Submit report and pass oral defense | | 1 |
| | | Entitled as Activist by the Communist Youth League of HUST or Hubei Province;<br>Membership of the group which is entitled as Excellent Social Practice Group by the Communist Youth League of HUST or Hubei Province | | 2 |
| 3 | Examinations in English and Computer | CET-6 | Students whose Band-6 exam scores accord our requirements | 2 |
| | | TOEFL, GRE | Students whose exam scores accord requirements | 2 |
| | | National Computer Rank Examination | Win certificate of Band-2 or higher | 2 |
| | | National Computer Software Qualification | Win certificate of programmer | 2 |
| | | | Win certificate of Advanced Programmer | 3 |
| | | | Win certificate of System Analyst | 4 |

continue

| | | | | |
|---|---|---|---|---|
| 4 | Competitions | University Level | Win first prize | 3 |
| | | | Win second prize | 2 |
| | | | Win third prize | 1 |
| | | Provincial Level | Win first prize | 4 |
| | | | Win second prize | 3 |
| | | | Win third prize | 2 |
| | | National Level | Win first prize | 6 |
| | | | Win second prize | 4 |
| | | | Win third prize | 3 |
| 5 | Thesis | Those whose thesis appears in national publications | Per piece | 2~3 |
| 6 | Scientific Research | Depending on both the time spent in and ability demonstrated in scientific research project | Each item | 1~3 |
| 7 | Experiments | Depending on innovative extent | Each item | 1~3 |

Note: In HUST Sports Meeting, the first and the second prize, the third to the fifth prize, and the sixth prize to the eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## Ⅶ. Main Courses

管理经济学 Managerial Economics、宏观经济学 Macro-economics、财务会计学 Financial Accounting、财务管理 Financial Management、市场营销学 Marketing、运作管理 Operations Management、组织行为与管理 Organizational Behavior and Management、经济法 Law of Economy、运筹学 Operations Research、计量经济学 Econometrics、中国税制 Tax System of China、金融经济学 Foundations for Financial Economics、博弈论 Game Theory、投资学 Investment

## 八、主要实践教学环节（含专业试验）

## Ⅷ. Practicum Module（experiments included）

军事训练 Military Training、公益劳动 Labouring for Public Benefit、金工实习 Industrial Practice、专业实习 Professional Social Practice、生产实习 Engineering Internship、课程设计 Course Project、毕业设计 Undergraduate Thesis

## 九、教学进程计划表

## Ⅸ. Course Schedule

院（系）：管理学院　　专业：财政学

School(Department): School of Management　　Specialty: Public Finance

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必修 required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必修 required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必修 required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必修 required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必修 required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必修 required | 0100741 | 形势与政策 Current Affairs and Policy | 32 | 2 | 14 | | | 1—6 |
| | 必修 required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | 必修 required | 0508453 | 综合英语（一） College English （Ⅰ） | 56 | 3.5 | | | | 1 |
| | 必修 required | 0508463 | 综合英语（二） College English （Ⅱ） | 56 | 3.5 | | | | 2 |
| | 必修 required | 0700011 | 微积分（一）上 Calculus (Ⅰ) | 88 | 5.5 | | | | 1 |
| | 必修 required | 0700012 | 微积分（一）下 Calculus (Ⅰ) | 88 | 5.5 | | | | 2 |
| | 必修 required | 0833174 | 数据库技术及应用 Database Techniques and Their Applications | 32 | 2 | | 8 | | 2 |
| | 必修 required | 0400111 | 大学体育（一） Physical Education(Ⅰ) | 32 | 1 | | | | 1 |
| | 必修 required | 0400121 | 大学体育（二） Physical Education(Ⅱ) | 32 | 1 | | | | 2 |
| | 必修 required | 0400131 | 大学体育（三） Physical Education(Ⅲ) | 32 | 1 | | | | 3 |
| | 必修 required | 0400141 | 大学体育（四） Physical Education(Ⅳ) | 32 | 1 | | | | 4 |
| | 必修 required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 7 |
| | 必修 required | 0700054 | 线性代数 Linear Algebra | 40 | 2.5 | | | | 2 |
| | 必修 required | 0700063 | 概率论与数理统计（三） Probability and Mathematics（Ⅲ） | 40 | 2.5 | | | | 3 |
| | 必修 required | 0827781 | 计算机与程序设计基础（C++） Advanced Programming Language (C++) | 48 | 3 | | 8 | | 1 |
| | | | 人文社科类选修课程 Electives in Humanities and Social Science | 160 | 10 | | | | |
| | 必修 required | 0400027 | 学科（专业）概论 Introduction to Discipline | 16 | 1 | | | | 1 |
| | 必修 required | 1204671 | 组织行为与管理 Organizational Behavior and Management | 48 | 3 | | | | 2 |
| | 必修 required | 1200024 | 会计学原理 Accounting | 48 | 3 | | | | 1 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 学科（大类）基础课程 Discipline-related General Courses | 必修 required | 0201181 | 微观经济学（I） Micro-Economics | 48 | 3 | | | | 1 |
| | 必修 required | 0200023 | 宏观经济学 Macro-Economics | 40 | 2.5 | | | | 3 |
| | 必修 required | 0702412 | 运筹学（一） Operations Research（Ⅰ） | 64 | 4 | | 8 | | 3 |
| | 必修 required | 1200052 | 财务管理 Financial Management | 40 | 2.5 | | | | 4 |
| | 必修 required | 1200091 | 市场营销学 Marketing | 40 | 2.5 | | 8 | | 3 |
| | 必修 required | 1200121 | 运作管理 Operations Management | 40 | 2.5 | | | | 4 |
| | 必修 required | 1200042 | 管理信息系统 Management Information Systems | 40 | 2.5 | | 8 | | 4 |
| | 必修 required | 0200303 | 学科发展前沿专题研究 Current Issues in Management Subject | 16 | 1 | | | | 7 |
| 专业核心课程 Major Core Courses | 必修 required | 0200233 | 货币银行学 Monetary Banking | 32 | 2 | | | | 5 |
| | 必修 required | 0200094 | 计量经济学 Econometrics | 48 | 3 | | | | 6 |
| | 必修 required | 1200254 | 中级财务会计 Financial Accounting | 40 | 2.5 | | | | 2 |
| | 必修 required | 0200161 | 金融市场与金融机构 Financial Markets and Financial Institutions | 32 | 2 | | | | 3 |
| | 必修 required | 1201341 | 中国税制 Tax System of China | 48 | 3 | | | | 4 |
| | 必修 required | 0200752 | 金融经济学 Foundations for Financial Economics | 40 | 2.5 | | | | 5 |
| | 必修 required | 0200393 | 证券投资学 Securities investment | 32 | 2 | | | | 5 |
| | 必修 required | 1202813 | 税收筹划 Tax Planning | 48 | 3 | | | | 5 |
| | 必修 required | 0200421 | 财务报表分析 Financial Accounting | 32 | 2 | | | | 5 |
| | 必修 required | 0201191 | 微观经济学（Ⅱ） Micro-economics（Ⅱ） | 32 | 2 | | | | 5 |
| | 必修 required | 0200212 | 公共经济学 Public Economics | 40 | 2.5 | | | | 4 |
| | 必修 required | 1200151 | 跨国公司税收 Taxation of Multinational Corporation | 40 | 2.5 | | | | 5 |
| | 必修 required | 1200142 | 税务稽查 Tax Auditing | 40 | 2.5 | | | | 6 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业核心课程 Major Core Courses | 必修 required | 1204191 | 企业税收与战略 Tax and Business Strategy | 24 | 1.5 | | | | 6 |
| | 必修 required | 1202772 | 税务代理及实务 Taxation Agency and Practice | 32 | 2 | | | | 7 |
| | 必修 required | 1200892 | 审计学 Auditing | 40 | 2.5 | | | | 5 |
| | 必修 required | 0200653 | 中级宏观经济学 Intermediate-Macroeconomics | 40 | 2.5 | | | | 6 |
| | 必修 required | 1200822 | 外汇交易与管理 Foreign Exchange Market | 32 | 2 | | | | 7 |
| 专业选修课（模块一） Major-specific Electives(Module I) | | | 专业选修课（160/10，其中模块一中至少任选一门。） | | | | | | |
| | 选 修 Elective | 0812071 | 博弈论 Game Theory | 32 | 2 | | | | 5 |
| | 选 修 Elective | 1201993 | 管理统计学 Management Statistics | 32 | 2 | | | | 4 |
| | 选 修 Elective | 1203981 | 商业数据分析与挖掘 Business Data Analysis and Mining | 40 | 2.5 | | | | 6 |
| 专业选修课（模块二） Major-specific Electives(Module II) | 选 修 Elective | 1205001 | 行为经济与管理 Behavional Economy and Management | 32 | 2 | | | | 6 |
| | 选 修 Elective | 1205011 | 企业税收与实务 Enterprise Tax and Practice | 32 | 2 | | | | 4 |
| | 选 修 Elective | 1204761 | 城市物流 City Logistics | 32 | 2 | | | | 5 |
| | 选 修 Elective | 1205021 | 供应链金融与风险管理 Supply Chain Finance & Risk Management | 32 | 2 | | | | 6 |
| | 选 修 Elective | 1200375 | 供应链管理（I） Supply Chain Management(I) | 32 | 2 | | | | 6 |
| | 选 修 Elective | 1200352 | 人力资源管理 Human Resource Management | 32 | 2 | | | | 5 |
| | 选 修 Elective | 1205031 | 公共关系礼仪 Public Relationship Etiquette | 32 | 2 | | | | 7 |
| | 选 修 Elective | 1205041 | 领导力提升 Leadership Skills | 32 | 2 | | | | 7 |
| | 选 修 Elective | 0827797 | 计算机与程序设计基础（VB） Advanced Programming Language（VB） | 40 | 2.5 | | | | 1 |
| | 选 修 Elective | 1201412 | 国际贸易实务 International Trade and Practice | 32 | 2 | | | | 5 |
| | 选 修 Elective | 1205051 | 社会网络分析 Social Network Analysis | 32 | 2 | | | | 4 |
| | 选 修 Elective | 1203751 | 商业伦理 Business Ethics | 32 | 2 | | | | 5 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 选 修 Elective | 0300053 | 经济法 Law of Economy | 32 | 2 | | | | 4 |
| | 选 修 Elective | 1204331 | 企业内部控制 Internal Control | 32 | 2 | | | | 4 |
| | 选 修 Elective | 1204361 | 高级财务成本管理 Advanced Financial and Cost Management | 48 | 3 | | | | 5 |
| | 选 修 Elective | 1204282 | 公司战略与风险管理 Corporate Strategy and Risk Management | 48 | 3 | | | | 6 |
| 实践环节 practical training items | 必修 required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必修 required | 1300024 | 公益劳动 Labouring for Public Benefit | 1w | 0.5 | | | | 5 |
| | 必修 required | 130042a | 课程设计 Course Project | 2w | 1 | | | | 6 |
| | 必修 required | 1302331 | 金工实习 Industrial Practice | 2w | 1 | | | | 3 |
| | 必修 required | 1300904 | 专业实验 Professional Experiments | 2w | 1 | | | | 4 |
| | 必修 required | 1327694 | 生产实习 Engineering Internship | 4w | 2 | | | | 6 |
| | 必修 required | 1327702 | 管理类综合实验（ERP） Management Integrated Experiment(ERP) | 2w | 1 | | | | 6 |
| | 必修 required | 1306111 | 税收综合实验 Comprehensive experiment of Taxation | 2w | 1 | | | | 6 |
| | 必修 required | 130004a | 毕业设计（论文） Undergraduate Thesis | 16w | 8 | | | | 8 |

# 信息管理与信息系统专业本科培养计划

# Undergraduate Program for Specialty in Information Management and Information Systems

## 一、培养目标

### Ⅰ. Program Objective

信息管理与信息系统专业培养具备现代管理理论基础，计算机科学技术知识及应用能力，掌握系统思想和信息系统分析与设计方法，信息管理的基本知识，能在国家各级管理部门、工商企业、金融机构、科研单位等部门从事信息管理以及信息系统分析与设计、实施和评价等工作的高级管理人才。

The Information Management and Information Systems program provides students with advanced understanding and skills in information management and information systems, which involves the study of modern management and computer technology. It encourages the development of analysis and design skills in the subject, which can make a vital contribution to the abilities to analyze, design, execute and evaluate complex problems in business sectors, government and organizations.

## 二、基本规格要求

### Ⅱ. Learning Outcomes

信息管理和信息系统专业主要培养如下几方面的知识和能力：

1. 扎实的经济、管理理论和数理理论基础；
2. 掌握信息管理和信息系统的基本理论、基础知识；
3. 掌握管理信息系统的分析方法、设计方法和实现技术；
4. 具有信息组织、分析研究、传播与开发利用的基本能力；
5. 具有综合运用所学知识分析和解决问题的基本能力；
6. 了解本专业相关领域的发展动态；
7. 掌握文献检索、资料查询、搜集的基本方法，具有一定的科研和实际工作能力。

Information Management and Information Systems:

The aims of the program are to：

1. Provide firm knowledge in the theories of economics, management science, mathematics and natural science；
2. Provide a conceptual understanding of information management and information system；
3. Understand the analytical skills, design skills and their application in the discipline；
4. Develop a range of management skills and competences in organizing, analyzing, researching, communicating, developing and utilizing information；
5. Develop the ability to solve problems；
6. Understand its current stage of development；
7. Acquire the skills to search documents and data, and abilities to do research and practical job.

## 三、培养特色

### Ⅲ. Program Highlights

1. 构建公共基础教学平台，宽口径、厚基础、高效率培养管理人才；
2. 依托学校大工科背景，培养具有工科背景的复合型人才；

3. 依托实习基地，注重实践能力培养；

4. 强化英语教学。

1. This program builds a common platform of basic education and forms an education model of "wide scope, sound grounding, high proficiency";

2. Depending on HUST's thick engineering discipline environment, this program nurtures talents with elementary knowledge of engineering discipline;

3. Depending on the logistic practice base, we pay much attention to the training of practical ability;

4. This program strengthens the education of English.

## 四、主干学科

## Ⅳ. Major Disciplines

管理学 Management

## 五、学制与学位

## Ⅴ. Program Length and Degree

学制：四年

Duration: 4 years

授予学位：管理学学士

Degrees Conferred: Bachelor of Management

## 六、学时与学分

## Ⅵ. Credits Hours and Units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：155

Minimum Credits of Curricular (Comprising course system and intensified internship practical training): 155

其中，专业核心课程学分不允许用其他课程学分进行学分冲抵和替代。

Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：5

Minimum Extracurricular Credits: 5

1. 课程体系学时与学分

Course Credits Hours and Units

| 课程类别 | | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|---|
| 通识教育基础课程 | | 必修 | 784/49 | 35.25 |
| | | 选修 | 160/10 | 7.19 |
| 学科基础课程 | | 必修 | 440/27.5 | 19.78 |
| 专业课程 | 专业核心课程 | 必修 | 680/42.5 | 30.59 |
| | 专业方向课程 | 选修 | 160/10 | 7.19 |
| 合计 | | | 2224/139 | 100 |

| Course Type | | Required/ Elective | Hrs/Crs | Percentage(%) |
|---|---|---|---|---|
| General Education Core Curriculum | | Required | 784/49 | 35.25 |
| | | Elective | 160/10 | 7.19 |
| Discipline-related Courses | | Required | 440/27.5 | 19.78 |
| Major-specific Courses | Core | Required | 680/42.5 | 30.59 |
| | Elective | Elective | 160/10 | 7.19 |
| Total | | | 2224/139 | 100 |

2. 集中性实践教学环节周数与学分

Practicum Credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 6.25 |
| 公益劳动 | 必修 | 1/0.5 | 3.125 |
| 金工实习 | 必修 | 2/1 | 6.25 |
| 课程设计 | 必修 | 2/1 | 6.25 |
| 生产实习 | 必修 | 4/2 | 12.50 |
| 管理类综合性实验（ERP） | 必修 | 2/1 | 6.25 |
| 毕业设计（论文） | 必修 | 16/8 | 50.00 |
| 拆装机与网络实验 | 必修 | 1/0.5 | 3.125 |
| 专业实验 | 必修 | 2/1 | 6.25 |
| 合计 | | 32/16 | 100 |

| Course Title | Required/ Elective | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 6.25 |
| Laboring for Public Benefit | Required | 1/0.5 | 3.125 |
| Mechanical Engineering Training | Required | 2/1 | 6.25 |
| Course Project | Required | 2/1 | 6.25 |
| Engineering Internship | Required | 4/2 | 12.50 |
| Management Integrated Experiment | Required | 2/1 | 6.25 |
| Undergraduate Thesis | Required | 16/8 | 50.00 |
| Computer Assembly and Network Experiment | Required | 1/0.5 | 3.125 |
| Professional Experiments | Required | 2/1 | 6.25 |
| Total | | 32/16 | 100 |

3. 课外学分

Extracurricular Credits

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 演讲或论文 | 至少参加一次公众演讲或完成一篇规范的论文 | | 1 |
| | 竞赛 | 参加并完成一项科技、文化或体育竞赛 | | 1 |
| | 领导者经历 | 至少有一年领导者经历 | | 1 |
| 2 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 3 | 英语及计算机考试 | 全国大学英语六级考试 | 获六级证书者 | 2 |
| | | 托福、GRE 考试 | 达到相应水平（需认定） | 2 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |
| 4 | 竞赛 | 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 5 | 论文 | 在全国性刊物发表论文 | 每篇论文 | 2~3 |
| 6 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1~3 |
| 7 | 实验 | 视创新情况 | 每项 | 1~3 |

注：在校运动会上参加某项目获得第一名、第二名，等同于校级竞赛一等奖；获得 3－5 名，等同于校级竞赛二等奖；获得 6－8

名，等同于校级竞赛三等奖。

| No. | Extracurricular Activities and Social Practice | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Public Speaking or Article | Attend and finish ONE speech contest or submit a article | | 1 |
| | Competition | Attend and finish ONE competition | | 1 |
| | Leader Experience | as a leader at list ONE year | | 1 |
| 2 | Activities of Social Practice | Submit report and pass oral defense | | 1 |
| | | Entitled as Activist by the Communist Youth League of HUST or Hubei Province;<br>Membership of the group which is entitled as Excellent Social Practice Group by the Communist Youth League of HUST or Hubei Province | | 2 |
| 3 | Examinations in English and Computer | CET-6 | Students whose Band-6 exam scores accord our requirements | 2 |
| | | TOEFL, GRE | Students whose exam scores accord requirements | 2 |
| | | National Computer Rank Examination | Win certificate of Band-2 or higher | 2 |
| | | National Computer Software Qualification | Win certificate of programmer | 2 |
| | | | Win certificate of Advanced Programmer | 3 |
| | | | Win certificate of System Analyst | 4 |
| 4 | Competitions | University Level | Win first prize | 3 |
| | | | Win second prize | 2 |
| | | | Win third prize | 1 |
| | | Provincial Level | Win first prize | 4 |
| | | | Win second prize | 3 |
| | | | Win third prize | 2 |
| | | National Level | Win first prize | 6 |
| | | | Win second prize | 4 |
| | | | Win third prize | 3 |
| 5 | Thesis | Those whose thesis appears in national publications | Per piece | 2~3 |
| 6 | Scientific Research | Depending on both the time spent in and ability demonstrated in scientific research project | Each item | 1~3 |
| 7 | Experiments | Depending on innovative extent | Each item | 1~3 |

Note: In HUST Sports Meeting, the first and the second prize, the third to the fifth prize, and the sixth prize to the eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## Ⅶ. Main Courses

管理经济学 Managerial Economics、宏观经济学 Macroeconomics、管理信息系统 Management Information Systems、运作管理 Operations Management、组织行为与管理 Organizational Behavior and Management、管理系统模拟 Management System Simulation、会计学 Accounting、运筹学 Operations Research、计算机网络 Computer Network System、数据结构 Data Structure、数据库管理系统 Database Management Systems、电子商务 Electronic Commerce、供应链管理 Supply Chain Management

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Practicum Module（experiments included）

课程设计 Course Project、生产实习 Engineering Internship、毕业设计 Undergraduate Thesis

## 九、教学进程计划表

## Ⅸ. Course Schedule

院（系）：管理学院　　专业：信息管理与信息系统

School(Department): School of Management　　Specialty: Information Management & Information Systems

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必修 required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必修 required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必修 required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必修 required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必修 required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必修 required | 0100741 | 形势与政策 Current Affairs and Policy | 32 | 2 | 14 | | | 1—6 |
| | 必修 required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | 必修 required | 0508453 | 综合英语（一） College English （Ⅰ） | 56 | 3.5 | | | | 1 |
| | 必修 required | 0508463 | 综合英语（二） College English （Ⅱ） | 56 | 3.5 | | | | 2 |
| | 必修 required | 0700011 | 微积分（一）上 Calculus（Ⅰ） | 88 | 5.5 | | | | 1 |
| | 必修 required | 0700012 | 微积分（一）下 Calculus（Ⅰ） | 88 | 5.5 | | | | 2 |
| | 必修 required | 0833174 | 数据库技术及应用 Database Techniques and Their Applications | 32 | 2 | | 8 | | 2 |
| | 必修 required | 0400111 | 大学体育（一） Physical Education(Ⅰ) | 32 | 1 | | | | 1 |
| | 必修 required | 0400121 | 大学体育（二） Physical Education(Ⅱ) | 32 | 1 | | | | 2 |
| | 必修 required | 0400131 | 大学体育（三） Physical Education(Ⅲ) | 32 | 1 | | | | 3 |
| | 必修 required | 0400141 | 大学体育（四） Physical Education(Ⅳ) | 32 | 1 | | | | 4 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必修 required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 7 |
| | 必修 required | 0700054 | 线性代数 Linear Algebra | 40 | 2.5 | | | | 2 |
| | 必修 required | 0700063 | 概率论与数理统计（三） Probability and Mathematics（Ⅲ） | 40 | 2.5 | | | | 3 |
| | 必修 required | 0827781 | 计算机与程序设计基础（C++） Advanced Programming Language (C++) | 48 | 3 | | 8 | | 1 |
| | | | 人文社科类选修课程 Electives in Humanities and Social Science | 160 | 10 | | | | |
| 学科（大类）基础课程 Discipline-related General Courses | 必修 required | 0400027 | 学科（专业）概论 Introduction to Discipline | 16 | 1 | | | | 1 |
| | 必修 required | 1204671 | 组织行为与管理 Organizational Behavior and Management | 48 | 3 | | | | 2 |
| | 必修 required | 1200024 | 会计学原理 Accounting | 48 | 3 | | | | 1 |
| | 必修 required | 0200074 | 管理经济学 Management Economics | 48 | 3 | | | | 1 |
| | 必修 required | 0200023 | 宏观经济学 Macro-Economics | 40 | 2.5 | | | | 3 |
| | 必修 required | 0702412 | 运筹学（一） Operations Research（Ⅰ） | 64 | 4 | | 8 | | 3 |
| | 必修 required | 1200052 | 财务管理 Financial Management | 40 | 2.5 | | | | 4 |
| | 必修 required | 1200091 | 市场营销学 Marketing | 40 | 2.5 | | 8 | | 3 |
| | 必修 required | 1200121 | 运作管理 Operations Management | 40 | 2.5 | | | | 4 |
| | 必修 required | 1200042 | 管理信息系统 Management Information Systems | 40 | 2.5 | | 8 | | 4 |
| | 必修 required | 0200303 | 学科发展前沿专题研究 Current Issues in Management Subject | 16 | 1 | | | | 7 |
| 专业核心课程 Major Core Courses | 必修 required | 1200117 | 电子商务 Electronic Commerce | 32 | 2 | | | | 4 |
| | 必修 required | 1205161 | 互联网数据分析 Internet Data Analysis | 32 | 2 | | | | 6 |
| | 必修 required | 1202741 | 决策分析 Decision Analysis | 40 | 2.5 | | | | 3 |
| | 必修 required | 1201631 | 项目管理 Project Management | 32 | 2 | | | | 5 |
| | 必修 required | 0702422 | 运筹学（Ⅱ） Operations Research（Ⅱ） | 40 | 2.5 | | | | 3 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业核心课程 Major Core Courses | 必修 required | 0811161 | 计算机网络技术及应用 Computer Network Techniques and Their Applications | 48 | 3 | | | | 2 |
| | 必修 required | 0806384 | Web 应用开发技术 Web Application Developing Techniques | 40 | 2.5 | | | | 4 |
| | 必修 required | 1201193 | 管理定量分析与软件应用 Management Quantitative Analysis | 32 | 2 | | | | 4 |
| | 必修 required | 0800414 | 数据结构 Data Structures | 40 | 2.5 | | | | 3 |
| | 必修 required | 0802301 | 面向对象的程序设计 Objects Oriented Programming Language (Java) | 40 | 2.5 | | | | 5 |
| | 必修 required | 0809212 | 计算机网络系统设计 Computer Network System Design | 32 | 2 | | | | 5 |
| | 必修 required | 0835221 | 数据库管理与优化 Database Management and Its Optimization | 32 | 2 | | | | 5 |
| | 必修 required | 1204161 | 管理信息系统分析与设计 Management Information Systems Analysis and Design | 40 | 2.5 | | | | 6 |
| | 必修 required | 1203363 | 信息系统开发方法与工具 Information System Development Technique and Tools | 32 | 2 | | 12 | | 5 |
| | 必修 required | 0812261 | 统一建模语言 Unified Modelling Language | 32 | 2 | | | | 5 |
| | 必修 required | 1203371 | 软件测试与质量控制 Software Testing and Quality Control | 32 | 2 | | | | 7 |
| | 必修 required | 1203351 | 工作流管理 Working flow management | 32 | 2 | | | | 7 |
| | 必修 required | 1200851 | 信息资源管理 Information Resource Management | 32 | 2 | | 8 | | 7 |
| | 必修 required | 1200402 | 管理系统模拟 Management System Stimulation | 40 | 2.5 | | 8 | | 6 |
| 专业选修课（模块一）Major-specific Electives(Module 1) | | | 专业选修课（160/10，其中模块一中至少选二门。） | | | | | | |
| | 选 修 Elective | 0812071 | 博弈论 Game Theory | 32 | 2 | | | | 5 |
| | 选 修 Elective | 1201993 | 管理统计学 Management Statistics | 32 | 2 | | | | 4 |
| | 选 修 Elective | 200094 | 计量经济学 Econometrics | 48 | 3 | | | | 6 |
| | 选 修 Elective | 1203981 | 商业数据分析与挖掘 Business Data Analysis and Mining | 40 | 2.5 | | | | 6 |
| | 选 修 Elective | 1205001 | 行为经济与管理 Behavional Economy and Management | 32 | 2 | | | | 6 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业选修课（模块Ⅱ）Major-specific Electives(Module II) | 选 修 Elective | 1205011 | 企业税收与实务 Enterprise Tax and Practice | 32 | 2 | | | | 4 |
| | 选 修 Elective | 1205021 | 供应链金融与风险管理 Supply Chain Finance & Risk Management | 32 | 2 | | | | 6 |
| | 选 修 Elective | 1200375 | 供应链管理（I） Supply Chain Management(I) | 32 | 2 | | | | 6 |
| | 选 修 Elective | 1200352 | 人力资源管理 Human Resource Management | 32 | 2 | | | | 5 |
| | 选 修 Elective | 0827797 | 计算机与程序设计基础（VB） Advanced Programming Language（VB） | 40 | 2.5 | | | | 1 |
| | 选 修 Elective | 1205051 | 社会网络分析 Social Network Analysis | 32 | 2 | | | | 4 |
| | 选 修 Elective | 1203751 | 商业伦理 Business Ethics | 32 | 2 | | | | 5 |
| | 选 修 Elective | 0300053 | 经济法 Law of Economy | 32 | 2 | | | | 4 |
| | 选 修 Elective | 1204331 | 企业内部控制 Internal Control | 32 | 2 | | | | 4 |
| | 选 修 Elective | 1204361 | 高级财务成本管理 Advanced Financial and Cost Management | 48 | 3 | | | | 5 |
| | 选 修 Elective | 1204282 | 公司战略与风险管理 Corporate Strategy and Risk Management | 48 | 3 | | | | 6 |
| 实践环节 practical training items | 必修 required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必修 required | 1300024 | 公益劳动 Labouring for Public Benefit | 1w | 0.5 | | | | 5 |
| | 必修 required | 1328172 | 拆装机与网络实验 Computer Assembly and Network Experiment | 1w | 0.5 | | | | 4 |
| | 必修 required | 130042a | 课程设计 Course Project | 2w | 1 | | | | 6 |
| | 必修 required | 1302331 | 金工实习 Industrial Practice | 2w | 1 | | | | 3 |
| | 必修 required | 1300904 | 专业实验 Professional Experiments | 2w | 1 | | | | 4 |
| | 必修 required | 1327694 | 生产实习 Engineering Internship | 4w | 2 | | | | 6 |
| | 必修 required | 1327702 | 管理类综合实验（ERP） Management Integrated Experiment(ERP) | 2w | 1 | | | | 6 |
| | 必修 required | 130004a | 毕业设计（论文） Undergraduate Thesis | 16w | 8 | | | | 8 |

# 物流管理专业本科培养计划

# Undergraduate Program for Specialty in Logistics Management

## 一、培养目标

## Ⅰ. Program Objective

物流管理专业面向工商业、国家经济管理部门、高等院校和科研院所，培养具有管理学、经济学和计算机科学与技术基础知识，熟悉物流政策法规，系统掌握现代物流管理理论与方法，具备物流系统分析与企业物流方案设计能力，熟练掌握一门外国语的中、高级复合型管理人才。

The Logistics Management program provides a thorough knowledge of logistics management in management, economics and computer science and technology, and emphasizes the development of modern logistics theories and methods to enable students to be logistics management talents. An understanding of logistics policy, regulations and laws，a mastery of a foreign language, and skills for logistics system analysis and logistics solution design will prepare graduates for a career in management.

## 二、基本规格要求

## Ⅱ. Learning Outcomes

物流管理专业要求学生主要学习物流管理的基础理论和基本知识，获得物流管理方法和技巧方面的系统训练，具有分析与解决物流管理实际问题的能力。

本专业学生应该获得以下多方面的知识和能力：

1. 掌握应用数学、管理学、经济学和现代企业管理的基础理论与基本知识；
2. 掌握物流管理的定性、定量分析方法；
3. 掌握信息管理技术的基本理论和应用技能；
4. 具有较强的语言与文字表达、人际沟通以及组织管理的基本能力；
5. 熟悉我国有关物流管理的方针、政策与法规以及了解国际贸易的惯例和规则；
6. 了解本学科的理论前沿与发展动态；
7. 掌握文献检索、资料查询的基本方法，具有一定的科学研究和实际工作能力。

Logistics Management:

The aims of the program seek to promote the following qualities:

1. Knowledge of applied mathematics, management science, economics and modern enterprise management;
2. Skills of qualitative and quantitative analysis in logistics management;
3. Skills of gathering information and its management;
4. Ability in the use of mother language to plan, conduct and present a business project, essential skills for effective communication, and ability to work as an organizer and a leader;
5. Understanding the logistics policy, regulations and laws of China, and the routine rules of international trade;
6. An awareness of current stage of logistics development;
7. Skills to search documents and data, and abilities to do research and practical job.

## 三、培养特色

## Ⅲ. Program Highlights

1. 构建公共基础教学平台，宽口径、厚基础、高效率培养管理人才；

2. 依托学校大工科背景，培养具有工科背景的复合型物流管理人才；

3. 依托实习基地，注重实践能力培养；

4. 注重企业物流问题分析与解决；

5. 强化英语教学。

1. This program builds a common platform of basic education and forms an education model of "wide scope, sound grounding, high proficiency";

2. Depending on HUST's thick engineering discipline environment, this program nurtures logistics talents with elementary knowledge of engineering discipline;

3. Depending on the logistic practice base, we pay much attention to the training of practical ability;

4. Focusing on analyzing and providing solution of business logistics problems.

5. This program strengthens the education of English.

## 四、主干学科

## Ⅳ. Major Disciplines

管理学 Management

## 五、学制与学位

## Ⅴ. Program Length and Degree

学制：四年

Duration: 4 years

授予学位：管理学学士

Degrees Conferred: Bachelor of Management

## 六、学时与学分

## Ⅵ. Credits Hours and Units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：162

Minimum Credits of Curricular (Comprising course system and intensified internship practical training)：162

其中，专业核心课程学分不允许用其他课程学分进行学分冲抵和替代。

Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：5

Minimum Extracurricular Credits：5

1. 课程体系学时与学分

Course Credits Hours and Units

| 课程类别 | | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|---|
| 通识教育基础课程 | | 必修 | 784/49 | 34.51 |
| | | 选修 | 160/10 | 7.04 |
| 学科基础课程 | | 必修 | 440/27.5 | 19.37 |
| 专业课程 | 专业核心课程 | 必修 | 744/45.5 | 32.04 |
| | 专业方向课程 | 选修 | 160/10 | 7.04 |
| 合计 | | | 2272/142 | 100 |

| Course Type | | Required/ Elective | Hrs/Crs | Percentage(%) |
|---|---|---|---|---|
| General Education Core Curriculum | | Required | 784/49 | 34.51 |
| | | Elective | 160/10 | 7.04 |
| Discipline-related Courses | | Required | 440/27.5 | 19.37 |
| Major-specific Courses | Core | Required | 744/45.5 | 32.04 |
| | Elective | Elective | 160/10 | 7.04 |
| Total | | | 2272/142 | 100 |

2. 集中性实践教学环节周数与学分

practicum credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 5.00 |
| 公益劳动 | 必修 | 1/0.5 | 2.50 |
| 金工实习 | 必修 | 2/1 | 5.00 |
| 生产实习 | 必修 | 4/2 | 10.00 |
| 生产运作管理综合实验 | 必修 | 4/2 | 10.00 |
| 物流管理综合实验（1） | 必修 | 3/1.5 | 7.50 |
| 物流管理综合实验（2） | 必修 | 3/1.5 | 7.50 |
| 管理类综合性实验（ERP） | 必修 | 2/1 | 5.00 |
| 毕业设计（论文） | 必修 | 16/8 | 40.00 |
| 拆装机与网络实验 | 必修 | 1/0.5 | 2.50 |
| 专业实验 | 必修 | 2/1 | 5.00 |
| 合计 | | 40/20 | 100 |

| Course Title | Required/ Elective | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 5.00 |
| Laboring for Public Benefit | Required | 1/0.5 | 2.50 |
| Mechanical Engineering Training | Required | 2/1 | 5.00 |
| Engineering Internship | Required | 4/2 | 10.00 |
| Comprehensive Experiments of Production & Operations Management | Required | 4/2 | 10.00 |
| Comprehensive Experiments of Logistics Management (I) | Required | 3/1.5 | 7.50 |
| Comprehensive Experiments of Logistics Management (II) | Required | 3/1.5 | 7.50 |
| Management Integrated Experiment | Required | 2/1 | 5.00 |
| Undergraduate Thesis | Required | 16/8 | 40.00 |
| Computer Assembly and Network Experiment | Required | 1/0.5 | 2.50 |
| Professional Experiments | Required | 2/1 | 5.00 |
| Total | | 40/20 | 100 |

3. 课外学分

Extracurricular Credits

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 演讲或论文 | 至少参加一次公众演讲或完成一篇规范的论文 | | 1 |
| | 竞赛 | 参加并完成一项科技、文化或体育竞赛 | | 1 |
| | 领导者经历 | 至少有一年领导者经历 | | 1 |
| 2 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 3 | 英语及计算机考试 | 全国大学英语六级考试 | 获六级证书者 | 2 |
| | | 托福、GRE 考试 | 达到相应水平（需认定） | 2 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |

续表

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 4 | 竞赛 | 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 5 | 论文 | 在全国性刊物发表论文 | 每篇论文 | 2~3 |
| 6 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1~3 |
| 7 | 实验 | 视创新情况 | 每项 | 1~3 |

注：在校运动会上参加某项目获得第一名、第二名，等同于校级竞赛一等奖；获得 3－5 名，等同于校级竞赛二等奖；获得 6－8 名，等同于校级竞赛三等奖。

| No. | Extracurricular Activities and Social Practice | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Public Speaking or Article | Attend and finish ONE speech contest or submit a article | | 1 |
| | Competition | Attend and finish ONE competition | | 1 |
| | Leader Experience | as a leader at list ONE year | | 1 |
| 2 | Activities of Social Practice | Submit report and pass oral defense | | 1 |
| | | Entitled as Activist by the Communist Youth League of HUST or Hubei Province;<br>Membership of the group which is entitled as Excellent Social Practice Group by the Communist Youth League of HUST or Hubei Province | | 2 |
| 3 | Examinations in English and Computer | CET-6 | Students whose Band-6 exam scores accord our requirements | 2 |
| | | TOEFL, GRE | Students whose exam scores accord requirements | 2 |
| | | National Computer Rank Examination | Win certificate of Band-2 or higher | 2 |
| | | National Computer Software Qualification | Win certificate of programmer | 2 |
| | | | Win certificate of Advanced Programmer | 3 |
| | | | Win certificate of System Analyst | 4 |
| 4 | Competitions | University Level | Win first prize | 3 |
| | | | Win second prize | 2 |
| | | | Win third prize | 1 |
| | | Provincial Level | Win first prize | 4 |
| | | | Win second prize | 3 |
| | | | Win third prize | 2 |
| | | National Level | Win first prize | 6 |
| | | | Win second prize | 4 |
| | | | Win third prize | 3 |
| 5 | Thesis | Those whose thesis appears in national publications | Per piece | 2~3 |
| 6 | Scientific Research | Depending on both the time spent in and ability demonstrated in scientific research project | Each item | 1~3 |
| 7 | Experiments | Depending on innovative extent | Each item | 1~3 |

Note: In HUST Sports Meeting, the first and the second prize, the third to the fifth prize, and the sixth prize to the eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## Ⅶ. Main Courses

宏观经济学 Macroeconomics、管理经济学 Management Economics、运筹学 I、II Operations Research I、II、运作管理 Operations Management、供应链管理 Supply Chain Management、物流管理基础 Fundamentals of Logistics Management、物流网络规划与设计 Logistics Network Planning、物流系统建模与仿真 Logistics System Modeling and Simulation、采购与供应管理 Purchasing and Supply Management、物流信息技术及应用 Logistics Information Techniques and Its Application、物流中心设计与运作 Distribution Center Designing、交通运输组织学 Transportation Organization、仓储管理 Warehousing Management、国际物流学 International Logistics、组织行为与管理 Organizational Behavior and Management、管理信息系统 Management Information Systems、电子商务 Electronic Business、会计学原理 Accounting、财务管理 Financial Management、计算机网络技术及应用 Computer Network Techniques and Their Applications、数据库技术及应用 Database Techniques and Their Applications。

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Practicum Module（experiments included）

生产实习 Engineering Internship、毕业设计 Undergraduate Thesis

## 九、教学进程计划表

## Ⅸ. Course Schedule

院（系）：管理学院　　专业：物流管理

School(Department): School of Management　　Specialty: Logistics Management

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必修 required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必修 required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必修 required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必修 required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必修 required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必修 required | 0100741 | 形势与政策 Current Affairs and Policy | 32 | 2 | 14 | | | 1–6 |
| | 必修 required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | 必修 required | 0508453 | 综合英语（一） College English （Ⅰ） | 56 | 3.5 | | | | 1 |
| | 必修 required | 0508463 | 综合英语（二） College English （Ⅱ） | 56 | 3.5 | | | | 2 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必修 required | 0700011 | 微积分（一）上 Calculus (Ⅰ) | 88 | 5.5 | | | | 1 |
| | 必修 required | 0700012 | 微积分（一）下 Calculus (Ⅰ) | 88 | 5.5 | | | | 2 |
| | 必修 required | 0833174 | 数据库技术及应用 Database Techniques and Their Applications | 32 | 2 | | 8 | | 2 |
| | 必修 required | 0400111 | 大学体育（一） Physical Education(Ⅰ) | 32 | 1 | | | | 1 |
| | 必修 required | 0400121 | 大学体育（二） Physical Education(Ⅱ) | 32 | 1 | | | | 2 |
| | 必修 required | 0400131 | 大学体育（三） Physical Education(Ⅲ) | 32 | 1 | | | | 3 |
| | 必修 required | 0400141 | 大学体育（四） Physical Education(Ⅳ) | 32 | 1 | | | | 4 |
| | 必修 required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 7 |
| | 必修 required | 0700054 | 线性代数 Linear Algebra | 40 | 2.5 | | | | 2 |
| | 必修 required | 0700063 | 概率论与数理统计（三） Probability and Mathematics（Ⅲ） | 40 | 2.5 | | | | 3 |
| | 必修 required | 0827781 | 计算机与程序设计基础（C++） Advanced Programming Language (C++) | 48 | 3 | | 8 | | 1 |
| | | | 人文社科类选修课程 Electives in Humanities and Social Science | 160 | 10 | | | | |
| 学科（大类）基础课程 Discipline-related General Courses | 必修 required | 0400027 | 学科（专业）概论 Introduction to Discipline | 16 | 1 | | | | 1 |
| | 必修 required | 1204671 | 组织行为与管理 Organizational Behavior and Management | 48 | 3 | | | | 2 |
| | 必修 required | 1200024 | 会计学原理 Accounting | 48 | 3 | | | | 1 |
| | 必修 required | 0200074 | 管理经济学 Management Economics | 48 | 3 | | | | 1 |
| | 必修 required | 0200023 | 宏观经济学 Macro-Economics | 40 | 2.5 | | | | 3 |
| | 必修 required | 0702412 | 运筹学（一） Operations Research（Ⅰ） | 64 | 4 | | 8 | | 3 |
| | 必修 required | 1200052 | 财务管理 Financial Management | 40 | 2.5 | | | | 4 |
| | 必修 required | 1200091 | 市场营销学 Marketing | 40 | 2.5 | | 8 | | 3 |
| | 必修 required | 1200121 | 运作管理 Operations Management | 40 | 2.5 | | | | 4 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必修 required | 1200042 | 管理信息系统 Management Information Systems | 40 | 2.5 | | 8 | | 4 |
| | 必修 required | 0200303 | 学科发展前沿专题研究 Current Issues in Management Subject | 16 | 1 | | | | 7 |
| 专业核心课程 Major Core Courses | 必修 required | 1201993 | 管理统计学 Management Statistics | 32 | 2 | | | | 5 |
| | 必修 required | 0700304 | 随机过程 Stochastic Process | 40 | 2.5 | | | | 6 |
| | 必修 required | 1203591 | 高级生产计划与控制 Advanced Production Planning and Control | 32 | 2 | | 8 | | 6 |
| | 必修 required | 1201631 | 项目管理 Project Management | 32 | 2 | | | | 5 |
| | 必修 required | 1202741 | 决策分析 Decision Analysis | 40 | 2.5 | | | | 3 |
| | 必修 required | 1200117 | 电子商务 Electronic Commerce | 32 | 2 | | | | 5 |
| | 必修 required | 0702422 | 运筹学（二） Operations Research（Ⅱ） | 40 | 2.5 | | | | 4 |
| | 必修 required | 1207112 | Matlab 与物流管理实验 Matlab and its Appcations in Experiments of Logistics Management | 32 | 2 | | 16 | | 4 |
| | 必修 required | 0811161 | 计算机网络技术及应用 Computer Network Techniques and Their Applications | 48 | 3 | | 16 | | 2 |
| | 必修 required | 1200376 | 供应链管理（Ⅱ） Supply Chain Management（Ⅱ） | 32 | 2 | | | | 4 |
| | 必修 required | 1202132 | 物流管理基础 Fundamentals of Loglistics Management | 32 | 2 | | | | 3 |
| | 必修 required | 1202172 | 物流网络规划与设计 Logistics Network Planning and Designing | 32 | 2 | | | | 5 |
| | 必修 required | 1202071 | 采购与供应管理 Purchasing and Supply Management | 32 | 2 | | | | 5 |
| | 必修 required | 1200132 | 质量管理 Quality Management | 32 | 2 | | | | 5 |
| | 必修 required | 1203412 | 仓储管理 Warehousing Management | 40 | 2.5 | | | | 5 |
| | 必修 required | 1203381 | 物流信息技术及应用 Logistics Information Techniques and Applications | 32 | 2 | | 8 | | 6 |
| | 必修 required | 1202731 | 物流系统建模与仿真 Logistics System Modeling and Simulation | 48 | 3 | | 8 | | 6 |
| | 必修 required | 1201142 | 物流中心设计与运作 Distribution Center Designing | 40 | 2.5 | | 8 | | 6 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必修 required | 1205171 | 运输管理 Transportation Management | 32 | 2 | | 8 | | 5 |
| | 必修 required | 1202141 | 国际物流学 International Logistics | 32 | 2 | | | | 6 |
| | 必修 required | 1204171 | 物流管理研究前沿 Current Issues in Logistics Management Study | 16 | 1 | | | | 7 |
| 专业选修课（模块一）Major-specific Electives(Module I) | | | 专业选修课（160/10，其中模块一中至少任选一门。） | | | | | | |
| | 选 修 Elective | 0812071 | 博弈论 Game Theory | 32 | 2 | | | | 5 |
| | 选 修 Elective | 200094 | 计量经济学 Econometrics | 48 | 3 | | | | 6 |
| | 选 修 Elective | 1203981 | 商业数据分析与挖掘 Business Data Analysis and Mining | 40 | 2.5 | | | | 6 |
| 专业选修课（模块二）Major-specific Electives(Module II) | 选 修 Elective | 1205001 | 行为经济与管理 Behavional Economy and Management | 32 | 2 | | | | 6 |
| | 选 修 Elective | 1205011 | 企业税收与实务 Enterprise Tax and Practice | 32 | 2 | | | | 4 |
| | 选 修 Elective | 1204761 | 城市物流 City Logistics | 32 | 2 | | | | 5 |
| | 选 修 Elective | 1205021 | 供应链金融与风险管理 Supply Chain Finance & Risk Management | 32 | 2 | | | | 6 |
| | 选 修 Elective | 1200352 | 人力资源管理 Human Resource Management | 32 | 2 | | | | 5 |
| | 选 修 Elective | 1205031 | 公共关系礼仪 Public Relationship Etiquette | 32 | 2 | | | | 7 |
| | 选 修 Elective | 1205041 | 领导力提升 Leadership Skills | 32 | 2 | | | | 7 |
| | 选 修 Elective | 0827797 | 计算机与程序设计基础（VB） Advanced Programming Language（VB） | 40 | 2.5 | | | | 1 |
| | 选 修 Elective | 1201412 | 国际贸易实务 International Trade and Practice | 32 | 2 | | | | 5 |
| | 选 修 Elective | 1205051 | 社会网络分析 Social Network Analysis | 32 | 2 | | | | 4 |
| | 选 修 Elective | 1203751 | 商业伦理 Business Ethics | 32 | 2 | | | | 5 |
| | 选 修 Elective | 0300053 | 经济法 Law of Economy | 32 | 2 | | | | 4 |
| | 选 修 Elective | 1204331 | 企业内部控制 Internal Control | 32 | 2 | | | | 4 |
| | 选 修 Elective | 1204361 | 高级财务成本管理 Advanced Financial and Cost Management | 48 | 3 | | | | 5 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 选 修 Elective | 1204282 | 公司战略与风险管理 Corporate Strategy and Risk Management | 48 | 3 | | | | 6 |
| 实践环节 practical training items | 必修 required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必修 required | 1300024 | 公益劳动 Labouring for Public Benefit | 1w | 0.5 | | | | 5 |
| | 必修 required | 1328172 | 拆装机与网络实验 Computer Assembly and Network Experiment | 1w | 0.5 | | | | 4 |
| | 必修 required | 1302331 | 金工实习 Industrial Practice | 2w | 1 | | | | 3 |
| | 必修 required | 1300904 | 专业实验 Professional Experiments | 2w | 1 | | | | 4 |
| | 必修 required | 1327694 | 生产实习 Engineering Internship | 4w | 2 | | | | 6 |
| | 必修 required | 1327702 | 管理类综合实验（ERP） Management Integrated Experiment(ERP) | 2w | 1 | | | | 6 |
| | 必修 required | 130004a | 毕业设计（论文） Undergraduate Thesis | 16w | 8 | | | | 8 |
| | 必修 required | 1306331 | 生产运作管理综合实验 Comprehensive Experiments of Production & Operations Management | 4w | 2 | | | | 6 |
| | 必修 required | 1306341 | 物流管理综合实验（1） Comprehensive Experiments of Logistics Management (I) | 3w | 1.5 | | | | 5 |
| | 必修 required | 1306351 | 物流管理综合实验（2） Comprehensive Experiments of Logistics Management (II) | 3w | 1.5 | | | | 7 |

# 管理学创新实验班本科培养计划

# Experimental Program for Management Science

## 一、培养目标

## Ⅰ. Program Objective

管理学（管理科学与工程）创新实验班培养具有扎实的基础理论功底、掌握国际先进的管理研究方法、经过严格系统的管理科学训练的学生，使他们具有在管理科学研究及决策中敏锐的观察力、独立的思想和严谨科学的分析能力，具备全球化背景下的国际视野和根植于中华文明的人文素养，具有在变革环境下处理复杂问题的综合能力及专业的职业操守，为未来中国培养最优秀的管理人才。

This program (Management Science and Engineering) provides students with a sound foundation in the principles of management and the in-depth analytical skills in economics, mathematics and computing, independent and innovative capabilities in solving challenging business problems, referring to the training programs of international top business schools. Graduates are expected to become the most competitive professionals in the business world or the top candidates in academic area to pursue further degrees.

## 二、基本规格要求

## Ⅱ. Learning Outcomes

实验班毕业生应获得以下几方面的知识和能力：

1. 修完国际一流大学管理学基本课程，掌握扎实的管理学基础理论；
2. 具有坚实的经济学与数理基础和较强的数学分析能力；
3. 能熟练阅读英文文献资料并具有较强的口语交流能力；
4. 能运用计算机进行模型分析与模拟；
5. 掌握中外文文献检索的基本方法，具有较强的管理研究和实际工作能力。

Experimental class of school of Management

Graduates of this program are required to achieve the following:

1. The basic courses as required by the international top business schools;
2. The basic courses on applied mathematics, economics, and econometrics;
3. Excellent ability in English language including reading, writing and communication;
4. Skills of using computer to facilitate modeling and simulation;
5. Skills of literature retrieval, information sourcing and capabilities in research and business practices.

## 三、培养特色

## Ⅲ. Program Highlights

秉承国际化的办学理念，课程设置和人才培养基本与国际接轨；强化学生数理基础训练、坚实的管理学与经济学理论基础训练、管理现象观察、实践与研究训练（强化实践环节，科研能力训练）、外语和计算能力训练（原版教材，双语或全英语授课，部分海外教师等），创新能力和综合素质训练等；保持外语、数学、计算机教学四年不断线。

In line with the training programs of international top business schools, the program provides special emphasis on training in mathematics, economics and computing skills in order to establish

sound foundations in theory and practices to solve complex and emerging problems in the business world. Comprehensive English training program is catered to students in China based on their background.

## 四、主干学科

## Ⅳ. Main Disciplines

管理学 Management、数学 Mathematics、经济学 Economics

## 五、学制与学位

## Ⅴ. Program Length and Degree

学制：四年制

Duration: 4 years

授予学位：管理学学士

Degrees Conferred: Bachelor of Management

## 六、学时与学分

## Ⅵ. Credits Hours and Units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：155.5 学分

Minimum Credits of Curricular (Comprising course system and intensified internship practical training) 要求：155.5 credits

其中，专业核心课程学分不允许用其他课程学分进行学分冲抵和替代。

Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：5 学分。

Minimum Extracurricular Credits：5 credits.

1. 课程体系学时与学分

course credits hours and units

| 课程类别 | | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|---|
| 通识教育基础课程 | | 必修 | 968/60.5 | 43.06 |
| | | 选修 | 160/10 | 7.12 |
| 学科基础课程 | | 必修 | 760/47.5 | 33.8 |
| 专业课程 | 专业核心课程 | 必修 | 200/12.5 | 8.90 |
| | 专业方向课程 | 选修 | 160/10 | 7.12 |
| 合计 | | | 2248/140.5 | 100 |

| Course Type | | Required/ Elective | Hrs/Crs | Percentage (%) |
|---|---|---|---|---|
| General Education Core Curriculum | | Required | 968/60.5 | 43.06 |
| | | Elective | 160/10 | 7.12 |
| Discipline-related Courses | | Required | 760/47.5 | 33.8 |
| Major-specific Courses | Core | Required | 200/12.5 | 8.90 |
| | Electives | Elective | 160/10 | 7.12 |
| Total | | | 2248/140.5 | 100 |

2. 集中性实践教学环节周数与学分

Practicum Credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 6.7 |
| 公益劳动 | 必修 | 1/0.5 | 3.3 |
| 金工实习 | 必修 | 2/1 | 6.7 |
| 基于项目的专业实习 | 必修 | 4/2 | 13.3 |
| 管理类综合性实验（ERP） | 必修 | 2/1 | 6.7 |
| 课程（实验）设计 | 必修 | 2/1 | 6.7 |
| 科研训练 | 必修 | 1/0.5 | 3.3 |
| 毕业设计（论文） | 必修 | 16/8 | 53.3 |
| 合计 | | 30/15 | 100 |

| Course Title | Required/ Elective | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 6.7 |
| Laboring for Public Benefit | Required | 1/0.5 | 3.3 |
| Mechanical Engineering Training | Required | 2/1 | 6.7 |
| Professional Social Practice | Required | 4/2 | 13.3 |
| Management Integrated Experiment | Required | 2/1 | 6.7 |
| Courses Design | Required | 2/1 | 6.7 |
| Scientific Research Training | Required | 1/0.5 | 3.3 |
| Undergraduate Thesis | Required | 16/8 | 53.3 |
| Total | | 30/15 | 100 |

3. 课外学分

Extracurricular Credits

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 演讲或论文 | 至少参加一次公众演讲或完成一篇规范的论文 | | 1 |
| | 竞赛 | 参加并完成一项科技、文化或体育竞赛 | | 1 |
| | 领导者经历 | 至少有一年领导者经历 | | 1 |
| 2 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 3 | 英语及计算机考试 | 全国大学英语六级考试 | 获六级证书者 | 2 |
| | | 托福、GRE 考试 | 达到相应水平（需认定） | 2 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |
| 4 | 竞赛 | 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 5 | 论文 | 在全国性刊物发表论文 | 每篇论文 | 2~3 |
| 6 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1~3 |
| 7 | 实验 | 视创新情况 | 每项 | 1~3 |

注：在校运动会上参加某项目获得第一名、第二名，等同于校级竞赛一等奖；获得 3－5 名，等同于校级竞赛二等奖；获得 6－8 名，等同于校级竞赛三等奖。

| No. | Extracurricular Activities and Social Practice | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Public Speaking or Article | Attend and finish ONE speech contest or submit a article | | 1 |
| | Competition | Attend and finish ONE competition | | 1 |
| | Leader Experience | as a leader at list ONE year | | 1 |
| 2 | Activities of Social Practice | Submit report and pass oral defense | | 1 |
| | | Entitled as Activist by the Communist Youth League of HUST or Hubei Province;<br>Membership of the group which is entitled as Excellent Social Practice Group by the Communist Youth League of HUST or Hubei Province | | 2 |
| 3 | Examinations in English and Computer | CET-6 | Students whose Band-6 exam scores accord our requirements | 2 |
| | | TOEFL, GRE | Students whose exam scores accord requirements | 2 |
| | | National Computer Rank Examination | Win certificate of Band-2 or higher | 2 |
| | | National Computer Software Qualification | Win certificate of programmer | 2 |
| | | | Win certificate of Advanced Programmer | 3 |
| | | | Win certificate of System Analyst | 4 |
| 4 | Competitions | University Level | Win first prize | 3 |
| | | | Win second prize | 2 |
| | | | Win third prize | 1 |
| | | Provincial Level | Win first prize | 4 |
| | | | Win second prize | 3 |
| | | | Win third prize | 2 |
| | | National Level | Win first prize | 6 |
| | | | Win second prize | 4 |
| | | | Win third prize | 3 |
| 5 | Thesis | Those whose thesis appears in national publications | Per piece | 2~3 |
| 6 | Scientific Research | Depending on both the time spent in and ability demonstrated in scientific research project | Each item | 1~3 |
| 7 | Experiments | Depending on innovative extent | Each item | 1~3 |

Note: In HUST Sports Meeting, the first and the second prize, the third to the fifth prize, and the sixth prize to the eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## Ⅶ. Main Courses

线性代数 Linear Algebra、概率论与数理统计（三）Probability and Mathematic Statistics（III）、运筹学 I、II Operations Research I、II、微观经济学 Micro-economics、宏观经济学 Macro-economics、计量经济学 I、II Econometrics I、II、生产运作管理 Production and Operations Management、质量管理 Quality Management、创新管理 Innovation Management、服务管理 Service Management、物流管理 Logistics Management、供应链管理 Supply Chain Management、商务与管理仿真 Simulation in Business and Management、信息策略管理 Information Strategy and Management、组织行为与管

理 Organizational Behavior and Management 电子物流 E- Logisitcs，商业智能和数据挖掘 Business Intelligence and Data Mining、博弈论 Game Theory、管理信息系统 Management Information System、Java 语言程序设计 Introduction to Java Programming.

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Practicum Module（Experiments Included）

社会调查 Social Investigation、课程大型作业 Course Project、专业实习和毕业实习 Professional Practice and Undergraduate Practice

## 九、教学进程计划表

## Ⅸ. Course Schedule

院（系）：管理学院　　专业：管理学实验班

School(Department): School of Management　　Specialty: Experimental Class for Management Science

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必修 required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必修 required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必修 required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必修 required | 0100931 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 32 | 2 | 28 | | | 2 |
| | 必修 required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必修 required | 0100741 | 形势与政策 Situation and Policy | 32 | 2 | 14 | | | 1—6 |
| | 必修 required | 0510071 | 中国语文 Chinese | 32 | 2 | 10 | | | 2 |
| | 必修 required | 0508453 | 综合英语（一） Comprehensive English （Ⅰ） | 56 | 3.5 | | | | 1 |
| | 必修 required | 0508463 | 综合英语（二） Comprehensive English （Ⅱ） | 56 | 3.5 | | | | 2 |
| | 必修 required | 0700011 | 微积分（一）上 Calculus (Ⅰ) | 88 | 5.5 | | | | 1 |
| | 必修 required | 0700012 | 微积分（一）下 Calculus (Ⅰ) | 88 | 5.5 | | | | 2 |
| | 必修 required | 0833175 | 数据库技术及应用 Database Techniques and Their Applications | 48 | 3 | | 8 | | 3 |
| | 必修 required | 0400111 | 大学体育（一） Physical Education(Ⅰ) | 32 | 1 | | | | 1 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必修 required | 0400121 | 大学体育（二） Physical Education(Ⅱ) | 32 | 1 | | | | 2 |
| | 必修 required | 0400131 | 大学体育（三） Physical Education(Ⅲ) | 32 | 1 | | | | 3 |
| | 必修 required | 0400141 | 大学体育（四） Physical Education(Ⅳ) | 32 | 1 | | | | 4 |
| | 必修 required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 7 |
| | 必修 required | 0700051 | 线性代数(一) Linear Algebra（Ⅰ） | 40 | 2.5 | | | | 2 |
| | 必修 required | 0700063 | 概率论与数理统计（三） Probability and Mathematics（Ⅲ） | 40 | 2.5 | | | | 3 |
| | 必修 required | 0827783 | 计算机与程序设计基础（C++） Fundamentals of Computer Programming (C++) | 88 | 5.5 | | 16 | | 1 |
| | 必修 required | 0809123 | Java 语言程序设计 Introduction to Java Programming | 32 | 2 | | | | 4 |
| | 必修 required | 0811161 | 计算机网络技术及应用 Computer Network Techniques and Their Applications | 48 | 3 | | 16 | | 2 |
| | 必修 required | 0804101 | 数学建模 Mathematical Modeling | 40 | 2.5 | | | | 4 |
| | 必修 required | | 人文社科类选修课程 Electives in Humanities and Social Science | 160 | 10 | | | | |
| 学科基础课程 Discipline-related General Courses | 必修 required | 1204671 | 组织行为与管理 Organizational Behavior and Management | 48 | 3 | | | | 1 |
| | 必修 required | 1200022 | 会计学 Accounting | 48 | 3 | | | | 3 |
| | 必修 required | 0200026 | 宏观经济学 Macro-Economics | 40 | 2.5 | | | | 3 |
| | 必修 required | 0200033 | 微观经济学 Micro-Economics | 40 | 2.5 | | | | 2 |
| | 必修 required | 0702413 | 运筹学（一） Operations Research（Ⅰ） | 40 | 2.5 | | | | 3 |
| | 必修 required | 1200042 | 管理信息系统 Management Information Systems | 40 | 2.5 | | | | 5 |
| | 必修 required | 0202071 | 计量经济学（上） Econometrics（Ⅰ） | 48 | 3 | | | | 3 |
| | 必修 required | 0202081 | 计量经济学（下） Econometrics（Ⅱ） | 48 | 3 | | | | 6 |
| | 必修 required | 0812073 | 博弈论 Game Theory | 48 | 3 | | | | 6 |
| | 必修 required | 1204461 | 信息策略管理 Information Strategy and Management | 40 | 2.5 | | | | 5 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 学科基础课程 Discipline-related General Courses | 必修 required | 1202251 | 物流管理 Logistics Management | 40 | 2.5 | | | | 5 |
| | 必修 required | 1204471 | 商务沟通与谈判 Business Communication and Negotiation | 32 | 2 | | | | 6 |
| | 必修 required | 1204481 | 商务与管理仿真 Simulation in Business and Management | 40 | 2.5 | | | | 4 |
| | 必修 required | 0702422 | 运筹学（二） Operations Research（Ⅱ） | 40 | 2.5 | | | | 4 |
| | 必修 required | 1204491 | 生产运作管理 Simulation in Business and Management | 40 | 2.5 | | | | 4 |
| | 必修 required | 1200051 | 财务管理 Financial Management | 48 | 3 | | | | 4 |
| | 必修 required | 1200091 | 市场营销学 Marketing | 40 | 2.5 | | | | 5 |
| | 必修 required | 1204501 | 战略管理 Strategic Management | 40 | 2.5 | | | | 6 |
| 专业核心课程 Major-specific Core Courses | 必修 required | 1200132 | 质量管理 Quality Management | 32 | 2 | | | | 6 |
| | 必修 required | 1200371 | 供应链管理 Supply Chain Management | 32 | 2 | | | | 5 |
| | 必修 required | 1204521 | 电子物流 E- Logisitcs | 32 | 2 | | | | 6 |
| | 必修 required | 1204531 | 创新管理 Innovation Management | 32 | 2 | | | | 6 |
| | 必修 required | 1204541 | 商业智能与数据挖掘 Business Intelligence and Data Mining | 40 | 2.5 | | | | 5 |
| | 必修 required | 1202001 | 服务管理 Service Management | 32 | 2 | | | | 7 |
| 专业方向课程 Major-specific Electives | 选 修 Elective | 0200432 | 金融工程学 Financial Engineering | 40 | 2.5 | | | | 6 |
| | 选 修 Elective | 0200232 | 货币银行学 Money and Banking | 40 | 2.5 | | | | 5 |
| | 选 修 Elective | 0200391 | 证券投资学 Portfolio Investment | 40 | 2.5 | | | | 6 |
| | 选 修 Elective | 1200171 | 预测与决策 Forecast and Decision | 40 | 2.5 | | | | 5 |
| 实践环节 | 必修 required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必修 required | 1300024 | 公益劳动 Labouring for Public Benefit | 1w | 0.5 | | | | 5 |
| | 必修 required | 1302331 | 金工实习 Industrial Practice | 2w | 1 | | | | 3 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| Practical Training Items | 必修 required | 1300486 | 专业社会实践 Professional Social Practice | 1w | 0.5 | | | | 5 |
| | 必修 required | 1300904 | 专业实验 Professional Experiments | 2w | 1 | | | | 7 |
| | 必修 required | 1327694 | 生产实习 Engineering Internship | 4w | 2 | | | | 6 |
| | 必修 required | 1327702 | 管理类综合实验（ERP） Management Integrated Experiment | 2w | 1 | | | | 5 |
| | 必修 required | 130006b | 毕业设计（论文） Undergraduate Thesis | 16w | 8 | | | | 8 |

# 外国语学院

华中科技大学外国语学院设有英语语言文学、日语语言文学、德语语言文学、翻译和法语语言文学等五个本科专业以及负责全校外语教学的大学外语系。在“中国语言文学”一级学科博士点下，设有“中外语言文化比较研究”二级学科博士点；拥有外国语言文学一级学科硕士学位授予权，外国语言学及应用语言学、英语语言文学、日语语言文学和德语语言文学等四个二级学科硕士学位授予权以及翻译硕士专业学位点。

学院现有专任教师173人，其中教授15人、副教授68人、博士生导师7人、硕士生导师42人，湖北省“教学名师奖”1人，校“教学名师奖”3人；有二位教授在教育部大学外语教学指导委员会、教育部大学英语四、六级考试委员会和英语专业指导委员会任职。三位教授分别任中国辞书协会双语词典学专业委员会23理事、全国英汉语比较研究会理事、湖北省外国文学学会常任理事等。现有国家级精品资源课程2门：“大学英语”和“英汉互译”。2013年“外国语言文学”获批湖北省省级重点学科。

学院设有外语教育研究中心、语言学研究中心、翻译研究中心、比较文化（文学）研究中心、区域（国别）研究中心、日本文化研究中心和德国文化研究中心等七个研究中心。建有同声传译实验室、计算机辅助翻译实验室、口译实训平台以及湖北省语言学习示范中心。

# 英语专业本科培养计划

# Undergraduate Program in English Language and Literature

## 一、培养目标

## Ⅰ. Program Objectives

培养具有较强英语语言能力、丰富百科知识和英语语言文学文化等基础知识、具备一定相关研究能力的应用复合型人才。

The undergraduate program in English Language and Literature is aimed at producing interdisciplinary students proficient in English, with a general knowledge of English language, literature and culture, and capable of doing basic research in the areas of linguistics, literature and inter-cultural communication.

## 二、基本规格要求

## Ⅱ. Learning Outcomes

1. 具备良好的思想道德、人文素养和职业素养；

2. 具有国际视野和跨文化交流与合作能力，较强的逻辑思辨能力和信息加工能力；

3. 了解中国和主要英语国家的历史、社会与文化，掌握科技、新闻、政治、经济、外贸、教育、文化等领域的基础知识；

4. 具有坚实的英语语言基础和较熟练的听、说、读、写、译的能力；

5. 具备在科技、新闻、外事、经贸、教育、文化等部门从事相关工作的能力。

Upon successful completion of the program, students will be able to:

1. Demonstrate good moral character, broad knowledge in humanities and professional ethics;

2. Develop global mindset, cultural competence, sophisticated analytical thinking skills and information processing capacities;

3. Build up a good understanding of the history, society and culture of China and the most popular English-speaking countries, and a general understanding of the fundamentals of science and technology, journalism, politics, economics, foreign trade, education and culture;

4. Develop a sound grounding of English language in listening, speaking, reading, writing and translation;

5. Be competent in offering services in various fields including science and technology, news media, foreign affairs, economics and trade, education and culture.

## 三、培养特色

## Ⅲ. Program Highlights

本专业培养特色可概括为国际化、复合型、应用型。本专业培养的人才具有国际化视野、英语与其它专业复合型知识、并具有较强应用能力。大多数学生在读期间有海外学习和实习机会，大部分学生毕业后到海外或国内著名高校继续深造。

本专业师资力量雄厚，大部分教师具有博士学位，所有教师均具有海外学习或访学的经历。本专业建设有一门国家级精品资源共享课程，拥有多间设备精良的语言实验室和笔译、口译实验室等，能为人才培养提供优秀的教学条件。

The program highlights are summarized as internationalized, interdisciplinary andapplication-

oriented. The students are supposed to have international vision with interdisciplinary knowledge structure and application skills. Most of the students have opportunities of overseas study or internship. Most students will pursue their studies at overseas or home universities after graduation.

The program has a strong faculty. Most teachers have a doctor's degree and all of them have the experience of studying or researching abroad. The program has a state-level Excellent Resource-sharing Course. The Department haswell-equipped language labs and labs of translation and interpreting, which provides excellent teaching conditions for talents cultivation.

## 四、主干学科

## Ⅳ. Academic Discipline

英语

English

## 五、学制与学位

## Ⅴ. Program Length and Degree

修业年限：四年

Program Length: 4 years

授予学位：文学学士

Degrees Conferred: Bachelor of Arts

## 六、学时与学分

## Ⅵ. Credits Hours and Units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：164 学分

Minimum curriculum credits (including courses and practicum): 164 credits

其中，专业基础课程、专业核心课程学分不允许用其他课程学分进行学分冲抵和替代。

Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：3 学分

Minimum Extracurricular Credits: 3 credits

1.课程体系学时与学分

Course Credits Hours and Units

| 课程类别 | | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|---|
| 通识教育基础课程 | | 必修 | 576/36 | 26.87 |
| | | 选修 | 128/8 | 5.97 |
| 学科（专业）基础课程 | 学科大类基础课程 | 必修 | 688/43 | 32.09 |
| | 学科专业基础课程 | 必修 | 112/7 | 5.22 |
| 专业课程 | 专业核心课程 | 必修 | 224/14 | 10.45 |
| | 专业方向课程 | 选修 | 416/26 | 19.4 |
| 合计 | | | 2144/134 | 100 |

| Course Type | | Required /Elective | Hrs/Crs | Percentage (%) |
|---|---|---|---|---|
| General Education Core Curriculum | | Required | 576/36 | 26.87 |
| | | Elective | 128/8 | 5.97 |
| Discipline-related Courses | General | Required | 688/43 | 32.09 |
| | Basic Subdisciplinary | Required | 112/7 | 5.22 |
| Major-specific Courses | Core | Required | 224/14 | 10.45 |
| | Elective | Elective | 416/26 | 19.4 |
| Total | | | 2144/134 | 100 |

2.集中性实践教学环节周数与学分

Practicum Credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 3.33 |
| 公益劳动 | 必修 | 1/0.5 | 1.67 |
| 专业导学 | 必修 | 4/2 | 6.67 |
| 科技实践 | 必修 | 2/1 | 3.33 |
| 科研训练 | 必修 | 1/0.5 | 1.67 |
| 听力训练 | 必修 | 4/2 | 6.67 |
| 学术英语写作 | 必修 | 2/1 | 3.33 |
| 专业实习 | 必修 | 4/2 | 6.67 |
| 英语演讲与辩论工作坊 | 选修 | 4/2 | 39.99 |
| 模联工作坊 | 选修 | 4/2 | |
| 英语阅读工作坊 | 选修 | 8/4 | |
| 英语写作工作坊 | 选修 | 8/4 | |
| 笔译工作坊 | 选修 | 4/2 | |
| 口译工作坊 | 选修 | 4/2 | |
| 毕业设计（论文） | 必修 | 16/8 | 26.67 |
| 合计 | | 60/30 | 100 |

| Course Title | Course Nature | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 3.33 |
| On-campus Voluntary Work | Required | 1/0.5 | 1.67 |
| Freshman Orientation | Required | 4/2 | 6.67 |
| Field Trip | Required | 2/1 | 3.33 |
| Research | Required | 1/0.5 | 1.67 |
| English Listening Training | Required | 4/2 | 6.67 |
| Academic English Writing | Required | 2/1 | 3.33 |
| Internship Program | Required | 4/2 | 6.67 |
| English Public Speaking and Debating Workshop | Elective | 4/2 | 39.99 |
| MUN Workshop | Elective | 4/2 | |
| English Reading Workshop | Elective | 8/4 | |
| English Writing Workshop | Elective | 8/4 | |
| Translation Workshop | Elective | 4/2 | |
| Interpreting Workshop | Elective | 4/2 | |
| Undergraduate Thesis | Required | 16/8 | 26.67 |
| Total | | 60/30 | 100 |

3.课外学分

Extracurricular Credits

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 2 | 外语及计算机考试 | 全国大学英语六级考试（英语、翻译专业过英语专业八级） | 获六级证书者（英语、翻译专业获英语专业八级证书） | 2 |
| | | 全国大学日语/法语/德语等四级考试 | 获四级证书者 | 2 |
| | | 托福考试 | 达 90 分以上者 | 3 |
| | | 雅思考试 | 达 6.5 分以上者 | 3 |
| | | GRE 考试 | 达 280 分以上者 | 3 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |

续表

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 2 | 外语及计算机考试 | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |
| 3 | 竞赛 | 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 4 | 论文 | 在全国性刊物发表论文 | 每篇论文 | 2-3 |
| 5 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1-3 |
| 6 | 创新 | 视创新情况 | 每项 | 1-3 |

| No. | Activities | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Community Engagement | Submitting a report and passing the oral defense | | 1 |
| | | Individuals awarded “Active Participant” / Teams awarded “Excellent Performance” by HUST or Hubei Youth League Committee | | 2 |
| 2 | Qualifications | CET-6 (For Non-English majors) / TEM - 8 (For English and Translation majors) | Certificate | 2 |
| | | CJT/TFU/PHSD - 4 | Certificate | 2 |
| | | TOEFL | Scoring 90 and above | 3 |
| | | IELTS | Scoring 6.5 and above | 3 |
| | | GRE | Scoring 280 and above | 3 |
| | | National Computer Rank Examination | Certificate (Grade 1 / 2) | 2 |
| | | Qualifications for Computer and Software Technology Proficiency | Programmer | 2 |
| | | | Senior Programmer | 3 |
| | | | System Analyst | 4 |
| 3 | Competitions | University Level | First Prize | 3 |
| | | | Second Prize | 2 |
| | | | Third Prize | 1 |
| | | Provincial Level | First Prize | 4 |
| | | | Second Prize | 3 |
| | | | Third Prize | 2 |
| | | National Level | First Prize | 6 |
| | | | Second Prize | 4 |
| | | | Third Prize | 3 |
| 4 | Academic Papers | Published in national-level journals | Each paper | 2-3 |
| 5 | Research Programs | Contribution and research capability | Each program | 1-3 |
| 6 | Innovation | Innovation capacity | Each program | 1-3 |

## 七、主要课程

## Ⅶ. Main Courses

英语精读 Intensive Reading、英语听力 English Listening、英语口语 Oral English、英语写作 English Writing、笔译 Translation、口译 Interpretation、英国文化概况 Introduction to British Culture、美国文化概况 Introduction to American Culture、英国历史 British History、美国历史 American History、英国文学（一）History of English Literature、英国文学（二）History of English Literature、

美国文学（一）History of American Literature（I）、美国文学（二）History of American Literature（II）、词汇学 Lexicology、语言学 General Linguistics。

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Practicum Module (experiments included)

专业实习　Internship program

毕业论文　Undergraduate thesis

工作坊　Workshops

## 九、教学进程计划表

## Ⅸ. Course Schedule

院(系)：外国语学院　　专业：英语

School: School of Foreign Languages　　Major: English

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必修 Required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必修 Required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必修 Required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必修 Required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必修 Required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | 0 | | | 4 |
| | 必修 Required | 0100741 | 形势与政策 Current Affairs and Policy | 32 | 2 | 14 | | | 1-6 |
| | 必修 Required | 0400111 | 大学体育（一） Physical Education (I) | 32 | 1 | | | | 1 |
| | 必修 Required | 0400121 | 大学体育（二） Physical Education (II) | 32 | 1 | | | | 2 |
| | 必修 Required | 0400131 | 大学体育（三） Physical Education (III) | 32 | 1 | | | | 3 |
| | 必修 Required | 0400141 | 大学体育（四） Physical Education (IV) | 32 | 1 | | | | 4 |
| | 必修 Required | 070001a | 微积分（三） Calculus (III) | 64 | 4 | | | | 1 |
| | 必修 Required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 1 |
| | 必修 Required | 0827791 | 计算机与程序设计基础(VB) Visual Basic Programming | 48 | 3 | | | 8 | 1 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必修 Required | 0510071 | 中国语文 Chinese | 32 | 2 | | | | 2 |
| | | | 自然科学公共选修课 Electives in Natural Sciences | 128 | 8 | | | | 1-8 |
| | 必修 Required | 0508421 | 第二外国语（一） Second Foreign Language （Ⅰ） | 64 | 4 | | | | 5 |
| | 必修 Required | 0508431 | 第二外国语（二） Second Foreign Language （II） | 64 | 4 | | | | 6 |
| | 选修 Required | 0508441 | 第二外国语（三） Second Foreign Language （III） | 64 | 4 | | | | 7 |
| 学科大类基础课程 Discipline-related General Courses | 必修 Required | 0511181 | 英语精读（一） Intensive English Reading (I) | 64 | 4 | | | | 1 |
| | 必修 Required | 0511151 | 英语精读（二） Intensive English Reading (II) | 64 | 4 | | | | 2 |
| | 必修 Required | 0511161 | 英语精读（三） Intensive English Reading (III) | 64 | 4 | | | | 3 |
| | 必修 Required | 0508491 | 高级英语（一） Advanced English (I) | 64 | 4 | | | | 4 |
| | 必修 Required | 0508511 | 高级英语（二） Advanced English (II) | 64 | 4 | | | | 5 |
| | 必修 Required | 0501982 | 英语语音 English Pronunciation | 32 | 2 | | | | 1 |
| | 必修 Required | 0508542 | 英语听力（一） English Listening (I) | 32 | 2 | | | | 1 |
| | 必修 Required | 0508552 | 英语听力（二） English Listening (II) | 32 | 2 | | | | 2 |
| | 必修 Required | 0508562 | 英语听力（三） English Listening (III) | 32 | 2 | | | | 3 |
| | 必修 Required | 0508572 | 英语听力（四） English Listening (IV) | 32 | 2 | | | | 4 |
| | 必修 Required | 0509581 | 英语基础写作 English Basic Writing | 24 | 1.5 | | | | 2 |
| | 必修 Required | 0509591 | 英语中级写作(一) English Intermediate Writing (I) | 24 | 1.5 | | | | 3 |
| | 必修 Required | 0509601 | 英语中级写作(二) English Intermediate Writing (II) | 24 | 1.5 | | | | 4 |
| | 必修 Required | 0513401 | 英语高级写作 English Advanced Writing | 24 | 1.5 | | | | 5 |
| | 必修 Required | 0511321 | 英语日常会话（一） Oral English (I) | 24 | 1.5 | | | | 1 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必修 Required | 0511332 | 英语日常会话（二） Oral English (II) | 24 | 1.5 | | | | 2 |
| | 必修 Required | 0511191 | 英语演讲与辩论（一） Oral English (III) | 32 | 2 | | | | 3 |
| | 必修 Required | 0511201 | 英语演讲与辩论（二） Oral English (IV) | 32 | 2 | | | | 4 |
| 学科专业基础课程 Basic Subdisciplinary Courses | 必修 Required | 0508691 | 英美影视与文化（一） English Movies and Culture (I) | 16 | 1 | | | | 1 |
| | 必修 Required | 0508711 | 英美影视与文化（二） English Movies and Culture (II) | 16 | 1 | | | | 2 |
| | 必修 Required | 0513411 | 英语国家社会与文化 Societies and Cultures of English-Speaking Countries | 32 | 2 | | | | 2 |
| | 必修 Required | 0545472 | 商务英语阅读 Business English Reading | 24 | 1.5 | | | | 3 |
| | 必修 Required | 0511702 | 新闻英语阅读 Newspaper English Reading | 24 | 1.5 | | | | 4 |
| 专业核心课程 Major-specific Core Courses | 必修 Required | 0513421 | 英语文学导论(I) Introduction to English Literature (I) | 32 | 2 | | | | 5 |
| | 必修 Required | 0513431 | 英语文学导论(II) Introduction to English Literature (II) | 32 | 2 | | | | 6 |
| | 必修 Required | 0513441 | 语言学导论 Introduction toLinguistics | 32 | 2 | | | | 5 |
| | 必修 Elective | 0502142 | 跨文化交际 Cross-Cultural Communication | 32 | 2 | | | | 6 |
| | 必修 Required | 0503602 | 英汉翻译 English-Chinese Translation | 32 | 2 | | | | 5 |
| | 必修 Required | 0508681 | 汉英翻译 Chinese-English Translation | 32 | 2 | | | | 6 |
| | 必修 Required | 0504861 | 基础口译 Fundamental Interpretation | 32 | 2 | | | | 5 |
| 专业方向课程 Major-specific Electives | | | 专业方向选修课程（选任一方向，修满 14 学分，从其他三个方向中修满 12 学分,总共需修满 26 学分） Special-Oriented Electives(14 credits out of one module +12 creditsout of the other three modules)（26credits） | | | | | | |
| | | | 文学类课程 Literature Module | | | | | | |
| | 选修 Elective | 0513451 | 英语小说 English Fiction | 32 | 2 | | | | 5 |
| | 选修 Elective | 0513461 | 英语散文 English Prose | 32 | 2 | | | | 6 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业方向课程 Major-specific Electives | 选修 Elective | 0513501 | 英语诗歌 English Poetry | 32 | 2 | | | | 6 |
| | 选修 Elective | 0513471 | 英语戏剧 English Drama | 32 | 2 | | | | 7 |
| | 选修 Elective | 0506122 | 古希腊罗马神话 AncientGreek and Roman Mythology | 32 | 2 | | | | 2 |
| | 选修 Elective | 0513481 | 比较文学 Comparative Literature | 32 | 2 | | | | 7 |
| | 选修 Elective | 0513491 | 文学原理 Literary Theory | 32 | 2 | | | | 5 |
| | | | 文化类课程 Culture Module | | | | | | |
| | 选修 Elective | 0510772 | 圣经与西方文化 The Bible and Western Culture | 32 | 2 | | | | 3 |
| | 选修 Elective | 0512101 | 英国历史 British History | 32 | 2 | | | | 3 |
| | 选修 Elective | 0512111 | 美国历史 American History | 32 | 2 | | | | 4 |
| | 选修 Elective | 0513511 | 西方文明史 A ShortHistory of Western Civilization | 32 | 2 | | | | 4 |
| | 选修 Elective | 0512091 | 西方思想经典 Heritage of Western Civilization | 32 | 2 | | | | 5 |
| | 选修 Elective | 0503481 | 中国文化通论 Introduction to Chinese Culture | 32 | 2 | | | | 3 |
| | 选修 Elective | 0502472 | 中西文化比较 Comparative Studies of Chinese and Western Cultures | 32 | 2 | | | | 6 |
| | | | 翻译类课程 Translation Module | | | | | | |
| | 选修 Elective | 0511731 | 交替传译 Consecutive Interpretation | 32 | 2 | | | | 6 |
| | 选修 Elective | 0511811 | 商务口译 Business English Interpreting | 32 | 2 | | | | 5 |
| | 选修 Elective | 0502421 | 科技翻译 Sci-Tech Translation | 32 | 2 | | | | 6 |
| | 选修 Elective | 0503431 | 实用翻译 Practical Translation | 32 | 2 | | | | 7 |
| | 选修 Elective | 0512001 | 计算机辅助翻译 Computer-aided Translation | 32 | 2 | | | | 6 |
| | 选修 Elective | 0511771 | 翻译概论 Introduction to Translation | 32 | 2 | | | | 5 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业方向课程 Major-specific Electives | 选修 Elective | 0511821 | 中国文化英译<br>Translating Chinese Culture | 32 | 2 | | | | 6 |
| | | | 语言学类课程<br>Linguistics Module | | | | | | |
| | 选修 Elective | 0500201 | 词汇学<br>Lexicology | 32 | 2 | | | | 3 |
| | 选修 Elective | 0502131 | 文体学<br>Stylistics | 32 | 2 | | | | 6 |
| | 选修 Elective | 0513521 | 句法学<br>Syntax | 32 | 2 | | | | 7 |
| | 选修 Elective | 0500162 | 语用学<br>Pragmatics | 32 | 2 | | | | 7 |
| | 选修 Elective | 0509691 | 语义学<br>Semantics | 32 | 2 | | | | 6 |
| | 选修 Elective | 0509701 | 语料库语言学<br>Corpus Linguistics | 32 | 2 | | | | 6 |
| | 选修 Elective | 0511683 | 英汉语言对比<br>Comparative Studies of English and Chinese | 32 | 2 | | | | 4 |
| 实践环节 practical training items | 必修 Required | 1300013 | 军事训练<br>Military Training | 2w | 1 | | | | 1 |
| | 必修 Required | 1300024 | 公益劳动<br>On-campus Voluntary Work | 1w | 0.5 | | | | 8 |
| | 必修 Required | 1304281 | 专业导学<br>Freshman Orientation | 4w | 2 | | | | 1 |
| | 必修 Required | 1306121 | 听力训练<br>English Listening Training | 4w | 2 | | | | 1-4 |
| | 必修 Required | 130044a | 科研训练<br>Research Training | 1w | 0.5 | | | | 6 |
| | 必修 Required | 130007d | 专业实习<br>Internship Program | 4w | 2 | | | | 4-6 |
| | 必修 Required | 1306131 | 科技实践<br>Field Trip | 2w | 1 | | | | 2 |
| | 必修 Required | 0545522 | 学术英语写作 | 2w | 1 | | | | 8 |
| | 必修 Required | 130004a | 毕业设计（论文）<br>Undergraduate Thesis | 16w | 8 | | | | 8 |
| | | | 工作坊类项目中阅读工作坊与写作工作坊为指定选修，其他四个工作坊需任选2项<br>实践环节总共修满 30 学分<br>Required items + English Reading Workshop and Writing Workshop + Any 2 of the other 4 workshops (30 credits) | | | | | | |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 实践环节 practical training items | 选修 Elective | 1304291 | 英语演讲与辩论工作坊 English Public Speaking and Debating Workshop | 4w | 2 | | | | 3-4 |
| | 选修 Elective | 1304301 | 模联工作坊 MUN Workshop | 4w | 2 | | | | 2-3 |
| | 选修 Elective | 1304311 | 英语阅读工作坊 English Reading Workshop | 8w | 4 | | | | 1-4 |
| | 选修 Elective | 1304321 | 英语写作工作坊 English Writing Workshop | 8w | 4 | | | | 2-5 |
| | 选修 Elective | 1304331 | 英语笔译工作坊 Translation Workshop | 4w | 2 | | | | 5-6 |
| | 选修 Elective | 1304341 | 英语口译工作坊 Interpreting Workshop | 4w | 2 | | | | 5-6 |

# 日语专业本科培养计划

# Undergraduate Program for Japanese

## 一、培养目标

## Ⅰ. Program Objectives

培养德智体全面发展，具有较高的文化素养和良好的心理品质，掌握日语专业必需的理论知识和专业技能，具有较强的创新意识、实践能力和宽阔视野的高素质人才。

The program aims to foster comprehensive development in moral, intellectual and psycho-physical well being and provide courses to empower students with cultural and ethical excellence, theoretical and practical knowledge, creative thinking and experiential understanding, as well as a wide field of vision.

## 二、基本规格要求

## Ⅱ. Learning Outcomes

1. 具有坚实的日语语言基础和熟练的听、说、读、写、译的能力;

2. 具有对日本社会和文化等有较广泛较深入的了解和一定的研究能力；

3. 具备在政府机关、高等院校、研究机构、外资外贸企业等从事管理、教学、科研、翻译等工作的能力，以及在国内外著名教育机构继续深造的能力。

Upon successful completion of the program, students should possess:

1. profound knowledge and skills in Japanese listening, speaking, writing, reading and translating ;

2. comprehensive social cultural knowledge in the Japanese context along with basic abilities of research and inquiry ;

3. capability of managing administration, teaching, researching, translating and interpretation for state organizations, academic institutions and foreign trade enterprises, with potentials for further education in renowned overseas institutions.

## 三、培养特色

## Ⅲ. Program Highlights

扎实的语言技能，深厚的文化底蕴、开阔的国际视野、高素质的跨文化交际能力

We advocate solid language skills, profound cultural understanding, broad vision, high competence in cross-cultural communication.

## 四、主干学科

## Ⅳ. Academic Discipline

日语

Japanese

## 五、学制与学位

## Ⅴ. Program Length and Degree

学　制：4年

Program Length：4 years

授予学位：文学学士

Degree Conferred: Bachelor of Arts

## 六、学时与学分

## Ⅵ. Credit Hours and Units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：190 学分。其中，专业基础课程、专业核心课程学分不允许用其他课程学分进行学分冲抵和替代。

Minimum Credits of Curricular (Comprising course system and intensified internship practical training): 190. Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：3 学分。

Minimum Extracurricular Credits: 3

1.课程体系学时与学分

Course Credit Hours and Units

| 课程类别 | | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|---|
| 通识教育基础课程 | | 必修 | 560/35 | 20.58 |
| | | 选修 | 128/8 | 4.71 |
| 学科（专业）基础课程 | 学科大类基础课程 | 必修 | 1232/66.5 | 39.12 |
| | 学科专业基础课程 | 必修 | 240/13 | 7.65 |
| 专业课程 | 专业核心课程 | 必修 | 256/16 | 9.41 |
| | 专业方向课程 | 选修 | 504/31.5 | 18.53 |
| 合计 | | | 2920/170 | 100 |

| Course Type | | Required /Elective | Hrs/Crs | Percentage (%) |
|---|---|---|---|---|
| General Education Core Curriculum | | Required | 560/35 | 20.58 |
| | | Elective | 128/8 | 4.71 |
| Discipline-related Courses | General | Required | 1232/66.5 | 39.12 |
| | Basic Sub-disciplinary | Required | 240/13 | 7.65 |
| Major-specific Courses | Core | Required | 256/16 | 9.41 |
| | Elective | Elective | 504/31.5 | 18.53 |
| Total | | | 2920/170 | 100 |

2.集中性实践教学环节周数与学分

Practicum Credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 5 |
| 公益劳动 | 必修 | 1/0.5 | 2.5 |
| 专业实习 | 必修 | 4/2 | 10 |
| 口译实践 | 必修 | 4/2 | 10 |
| 计算机辅助翻译实践 | 必修 | 3/1.5 | 7.5 |
| 科研训练 | 必修 | 2/1 | 5 |
| 专业导学 | 必修 | 8/4 | 20 |
| 毕业设计（论文） | 必修 | 16/8 | 40 |
| 合计 | | 40/20 | 100 |

| Course Title | Required /Elective | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 5 |
| On-campus Voluntary Work | Required | 1/0.5 | 2.5 |
| Internship Program | Required | 4/2 | 10 |
| Interpreting Practice | Required | 4/2 | 10 |
| CAT Practice | Required | 3/1.5 | 7.5 |
| Scientific Research Training | Required | 2/1 | 5 |
| Freshman Orientation | Required | 8/4 | 20 |
| Undergraduate Thesis | Required | 16/8 | 40 |
| Total | | 40/20 | 40/20 |

3.课外学分

Extracurricular Credits

| 序号 | 名 称 | 要 求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 2 | 英语及计算机考试 | 全国大学英语六级考试（英语、翻译专业过英语专业八级） | 获六级证书者（英语、翻译专业获英语专业八级证书） | 2 |
| | | 日语 N1 考试 | 获 N1 证书者 | 2 |
| | | 日语专业八级考试 | 获证书者 | 2 |
| | | 日语专业四级考试 | 获证书者 | 1 |
| | | 托福考试 | 达 90 分以上者 | 3 |
| | | 雅思考试 | 达 6.5 分以上者 | 3 |
| | | GRE 考试 | 达 280 分以上者 | 3 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |
| 3 | 竞赛 | 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 4 | 论文 | 在全国性刊物发表论文 | 每篇论文 | 2-3 |
| 5 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1-3 |
| 6 | 创新 | 视创新情况 | 每项 | 1-3 |

注：参加校体育运动会获第一名、第二名者与校级一等奖等同，获第三名至第五名者与校级二等奖等同，获第六至第八名者与校级三等奖等同。

| No. | Activities | Requirements | | Crs |
|---|---|---|---|---|
| 1 | Community Engagement | Submitting a report and passing the oral defense | | 1 |
| | | Individuals awarded “Active Participant” / Teams awarded “Excellent Performance” by HUST or Hubei Youth League Committee | | 2 |
| 2 | Qualifications | CET-6 (For Non-English majors) / TEM - 8 (For English and Translation majors) | Certificate | 2 |
| | | JLPT-1 | Certificate | 2 |
| | | TJM-8 | Certificate | 2 |
| | | TJM-4 | Certificate | 1 |
| | | TOEFL | Scoring 90 and above | 3 |
| | | IELTS | Scoring 6.5 and above | 3 |
| | | GRE | Scoring 280 and above | 3 |
| | | CATII | Certificate | 2 |
| | | SFLICE (Advanced) | Certificate | 2 |
| | | National Computer Rank Examination | Certificate (Grade 2 or above) | 2 |
| | | Qualifications for Computer and Software Technology Proficiency | Programmer | 2 |
| | | | Senior Programmer | 3 |
| | | | System Analyst | 4 |
| 3 | Competitions | University-level | First Prize | 3 |
| | | | Second Prize | 2 |
| | | | Third Prize | 1 |
| | | Provincial-level | First Prize | 4 |
| | | | Second Prize | 3 |
| | | | Third Prize | 2 |
| | | National-level | First Prize | 6 |
| | | | Second Prize | 4 |
| | | | Third Prize | 3 |
| 4 | Academic Papers | Published in national-level journals | Each paper | 2-3 |
| 5 | Research Programs | Contribution and research capability | Each program | 1-3 |
| 6 | Innovation | Innovation capacity | Each program | 1-3 |

Note: In HUST Sports Meeting, the first and the second prize, the third to the fifth prize, and the sixth prize to the eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## Ⅶ. Main Courses

基础日语 Basic Japanese、中级日语 Intermediate Japanese，高级日语 Advanced Japanese、日语会话 Japanese Conversation、日语听力 Japanese Listening、日语写作 Japanese Writing、日汉互译 Translation between Japanese and Chinese、日语阅读 Japanese Reading、日语口译 Interpretation、日语概论 General Introduction to Japanese、日本史 Japanese History、日本古典文学作品赏析 Selected Readings of Japanese Classical Literature、日本近现代文学作品赏析 Selected Readings of Japanese Modern Literature、日本文化论 Introduction to Japanese Culture。

## 八、主要实践教学环节（含专业实验）

Ⅷ. Practicum Module (experiments included)

翻译实践 Translation Internship

## 九、教学进程计划表

学院：外国语学院　　专业：日语

School: School of Foreign Languages　　Major: Japan

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 basic courses in general education | 必修 required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必修 required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必修 required | 0100733 | 马克思主义基本原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必修 required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必修 required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必修 required | 0100741 | 形势与政策 Current Affairs and Policy | 32 | 2 | 14 | | | 1－6 |
| | 必修 required | 0510071 | 中国语文 Chinese | 32 | 2 | | | | 2 |
| | 必修 required | 0508453 | 综合英语（一） Comprehensive English Ⅰ | 56 | 3.5 | | | | 1 |
| | 必修 required | 0508463 | 综合英语（二） Comprehensive English Ⅱ | 56 | 3.5 | | | | 2 |
| | 必修 required | 0400111 | 大学体育（一） Physical Education Ⅰ | 32 | 1 | | | | 1 |
| | 必修 required | 0400121 | 大学体育（二） Physical Education Ⅱ | 32 | 1 | | | | 2 |
| | 必修 required | 0400131 | 大学体育（三） Physical Education Ⅲ | 32 | 1 | | | | 3 |
| | 必修 required | 0400141 | 大学体育（四） Physical Education Ⅳ | 32 | 1 | | | | 4 |
| | 必修 required | 070001a | 微积分（三） Calculus | 64 | 4 | | | | 1 |
| | 必修 required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 1 |
| | 必修 required | 0827791 | 计算机与程序设计基础（VB） Design and practice of VB oriented object program | 48 | 3 | | | 8 | 1 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | | | 自然科学类选修课程<br>Electives in the Humanities and Social Sciences | 128 | 8 | | | | 1－8 |
| 学科大类基础课程 basic courses in general discipline | 必修 required | 0509801 | 基础日语Ⅰ<br>Basic Japanese Ⅰ | 64 | 4 | | | | 1 |
| | 必修 required | 0509811 | 基础日语Ⅱ<br>Basic JapaneseⅡ | 56 | 3.5 | | | | 1 |
| | 必修 required | 0509821 | 基础日语Ⅲ<br>Basic JapaneseⅢ | 80 | 5 | | | | 2 |
| | 必修 required | 0509831 | 基础日语Ⅳ<br>Basic JapaneseⅣ | 72 | 4.5 | | | | 2 |
| | 必修 required | 0509841 | 中级日语Ⅰ<br>Intermediate Japanese Ⅰ | 72 | 4.5 | | | | 3 |
| | 必修 required | 0509851 | 中级日语Ⅱ<br>Intermediate JapaneseⅡ | 72 | 4.5 | | | | 3 |
| | 必修 required | 0509861 | 中级日语Ⅲ<br>Intermediate JapaneseⅢ | 64 | 4 | | | | 4 |
| | 必修 required | 0509871 | 中级日语Ⅳ<br>Intermediate JapaneseⅣ | 64 | 4 | | | | 4 |
| | 必修 required | 0504144 | 日语听力Ⅰ<br>Japanese Listening Ⅰ | 16 | 1 | | | | 1 |
| | 必修 required | 0513561 | 日语听力Ⅰ实践<br>Practice of Japanese Listening Ⅰ | 16 | 0.5 | | | | 1 |
| | 必修 required | 0508151 | 日语听力Ⅱ<br>Japanese ListeningⅡ | 32 | 2 | | | | 2 |
| | 必修 required | 0513571 | 日语听力Ⅱ实践<br>Practice of Japanese Listening Ⅱ | 32 | 1 | | | | 2 |
| | 必修 required | 0508161 | 日语听力Ⅲ<br>Japanese ListeningⅢ | 32 | 2 | | | | 3 |
| | 必修 required | 0513581 | 日语听力Ⅲ实践<br>Practice of Japanese Listening Ⅲ | 32 | 1 | | | | 3 |
| | 必修 required | 0508172 | 日语听力Ⅳ<br>Japanese Listening Ⅳ | 16 | 1 | | | | 4 |
| | 必修 required | 0513591 | 日语听力Ⅳ实践<br>Practice of Japanese Listening Ⅳ | 16 | 0.5 | | | | 4 |
| | 必修 required | 0508181 | 日语会话Ⅰ<br>Japanese Conversation Ⅰ | 32 | 2 | | | | 1 |
| | 必修 required | 0513601 | 日语会话Ⅰ实践<br>Practice of Japanese Conversation Ⅰ | 16 | 0.5 | | | | 1 |
| | 必修 required | 0508191 | 日语会话Ⅱ<br>Japanese ConversationⅡ | 16 | 1 | | | | 2 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 学科大类基础课程 basic courses in general discipline | 必修 required | 0513611 | 日语会话Ⅱ实践 Practice of Japanese Conversation Ⅱ | 16 | 0.5 | | | | 2 |
| | 必修 required | 0508201 | 日语会话Ⅲ Japanese ConversationⅢ | 32 | 2 | | | | 3 |
| | 必修 required | 0513621 | 日语会话Ⅲ实践 Practice of Japanese Conversation Ⅲ | 32 | 1 | | | | 3 |
| | 必修 required | 0511852 | 日语会话Ⅳ Japanese ConversationⅣ | 32 | 2 | | | | 4 |
| | 必修 required | 0513631 | 日语会话Ⅳ实践 Practice of Japanese Conversation Ⅳ | 32 | 1 | | | | 4 |
| | 必修 required | 0513641 | 高级日语会话Ⅰ Advanced Japanese Conversation Ⅰ | 16 | 1 | | | | 5 |
| | 必修 required | 0513651 | 高级日语会话Ⅰ实践 Practice of Advanced Japanese Conversation Ⅰ | 16 | 0.5 | | | | 5 |
| | 必修 required | 0513661 | 高级日语会话Ⅱ Advanced Japanese Conversation Ⅱ | 16 | 1 | | | | 6 |
| | 必修 required | 0513671 | 高级日语会话实践Ⅱ Practice of Advanced Japanese ConversationⅡ | 16 | 0.5 | | | | 6 |
| | 必修 required | 0508112 | 高级日语Ⅰ Advanced Japanese Ⅰ | 80 | 5 | | | | 5 |
| | 必修 required | 0508122 | 高级日语Ⅱ Advanced JapaneseⅡ | 80 | 5 | | | | 6 |
| | 必修 required | 0508131 | 高级日语Ⅲ Advanced JapaneseⅢ | 64 | 4 | | | | 7 |
| 学科专业基础课程 common courses in specialty | 必修 required | 0509891 | 日语语音与表现 Japanese voice and expression | 32 | 2 | | | | 1 |
| | 必修 required | 0502221 | 日语阅读 Japanese Reading | 32 | 2 | | | | 4 |
| | 必修 required | 0508211 | 日语写作Ⅰ Japanese Writing Ⅰ | 16 | 1 | | | | 4 |
| | 必修 required | 0513681 | 日语写作Ⅰ实践 Practice of Japanese Writing Ⅰ | 16 | 0.5 | | | | 4 |
| | 必修 required | 0508221 | 日语写作Ⅱ Japanese WritingⅡ | 16 | 1 | | | | 5 |
| | 必修 required | 0513691 | 日语写作Ⅱ实践 Practice of Japanese Writing Ⅱ | 16 | 0.5 | | | | 5 |
| | 必修 required | 0508231 | 日语写作Ⅲ Japanese WritingⅢ | 16 | 1 | | | | 6 |
| | 必修 required | 0513701 | 日语写作Ⅲ实践 Practice of Japanese Writing Ⅲ | 16 | 0.5 | | | | 6 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 学科专业基础课程 common courses in specialty | 必修 required | 0509912 | 日语高级写作 Japanese advanced writing | 16 | 1 | | | | 7 |
| | 必修 required | 0513711 | 日语高级写作实践 Practice of Japanese advanced writing | 16 | 0.5 | | | | 7 |
| | 必修 required | 0504701 | 高级听说Ⅰ Advanced Japanese Listening and Speaking Ⅰ | 16 | 1 | | | | 5 |
| | 必修 required | 0513721 | 高级听说Ⅰ实践 Practice of Advanced Japanese Listening and Speaking Ⅰ | 16 | 0.5 | | | | 5 |
| | 必修 required | 0504731 | 高级听说Ⅱ Advanced Japanese Listening and Speaking Ⅱ | 16 | 1 | | | | 6 |
| | 必修 required | 0513731 | 高级听说Ⅱ实践 Practice of Advanced Japanese Listening and Speaking Ⅱ | 16 | 0.5 | | | | 6 |
| 专业核心课程 core courses in specialty | 必修 required | 0512461 | 日本史 Japanese History | 32 | 2 | | | | 3 |
| | 必修 required | 0513741 | 日语语法 Japanese Grammar | 32 | 2 | | | | 4 |
| | 必修 required | 0502281 | 日语概论 General Introduction to Japanese | 32 | 2 | | | | 5 |
| | 必修 required | 0502291 | 日本文学史 History of Japanese Literature | 32 | 2 | | | | 5 |
| | 必修 required | 0545761 | 日本近现代文学作品赏析 Selected Readings of Japanese Morden Literature | 32 | 2 | | | | 6 |
| | 必修 required | 0504741 | 日本文化论 Introduction to Japanese Culture | 32 | 2 | | | | 6 |
| | 必修 required | 0509961 | 翻译与文化传播 Translation and cultural communication | 32 | 2 | | | | 6 |
| | 必修 required | 0509901 | 日语语言与文化 Japanese language and culture | 32 | 2 | | | | 6 |
| 专业方向课程 specialty-oriented courses | 选修 Elective | 0502272 | 日本国情 Introduction to Japan | 32 | 2 | | | | 1 |
| | 选修 Elective | 0509921 | 日本网络资源检索与利用 Internet Data Retrieval and Utilization in Japan | 16 | 1 | | | | 2 |
| | 选修 Elective | 0502352 | 中日文化交流史 History of Sino-Japan Cultural Exchanges | 32 | 2 | | | | 2 |
| | 选修 Elective | 0509931 | 日本美学与传统艺术 Japanese Aesthetics and Traditional Art | 32 | 2 | | | | 3 |
| | 选修 Elective | 0502332 | 日本经济 Japanese Economy | 32 | 2 | | | | 3 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业方向课程 specialty-oriented courses | 选 修 Elective | 0509941 | 日语词汇学 Japanese Lexicology | 32 | 2 | | | | 4 |
| | 选 修 Elective | 0509951 | 日本政治与外交 Japanese politics and diplomacy | 32 | 2 | | | | 4 |
| | 选 修 Elective | 0545751 | 日本古典文学作品赏析 Selected Readings of Japanese Classical Literature | 32 | 2 | | | | 5 |
| | 选 修 Elective | 0508251 | 日汉互译Ⅰ Translation between Japanese and Chinese Ⅰ | 32 | 2 | | | | 5 |
| | 选 修 Elective | 0508261 | 日汉互译Ⅱ Translation between Japanese and Chinese Ⅱ | 32 | 2 | | | | 6 |
| | 选 修 Elective | 0508271 | 日文报刊选读Ⅰ Newspaper Reading Ⅰ | 32 | 2 | | | | 4 |
| | 选 修 Elective | 0508281 | 日文报刊选读Ⅱ Newspaper Reading Ⅱ | 32 | 2 | | | | 5 |
| | 选 修 Elective | 0504721 | 日语古典语法 Classial Japanese Grammar | 32 | 2 | | | | 5 |
| | 选 修 Elective | 0508291 | 商务日语Ⅰ Busctical Japanese Ⅰ | 32 | 2 | | | | 5 |
| | 选 修 Elective | 0508301 | 商务日语Ⅱ Busctical Japanese Ⅱ | 32 | 2 | | | | 6 |
| | 选 修 Elective | 0508331 | 日语口译Ⅰ Interpretation Ⅰ | 32 | 2 | | | | 6 |
| | 选 修 Elective | 0508341 | 日语口译Ⅱ Interpretation Ⅱ | 32 | 2 | | | | 7 |
| | 选 修 Elective | 0502142 | 跨文化交际 Cross Cultural Communication | 32 | 2 | | | | 7 |
| | 选 修 Elective | 0509971 | 日本文化专题研究 Research on Japanese culture | 16 | 1 | | | | 7 |
| | 选 修 Elective | 0509981 | 日本语言专题研究 Research on Japanese Language | 16 | 1 | | | | 7 |
| | 选 修 Elective | 0509991 | 日本文学专题研究 Research on Japanese Literature | 16 | 1 | | | | 7 |
| | 选 修 Elective | 0511751 | 同声传译 Simultaneous Interpreting | 32 | 2 | | | | 7 |
| | 选 修 Elective | 0510001 | 学术日语写作 The academic writing of Japanese | 16 | 1 | | | | 8 |
| | 必修 required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必修 required | 1300024 | 公益劳动 On-campus Voluntary Work | 1w | 0.5 | | | | 8 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 实践环节 practical training items | 必修 required | 130007d | 专业实习 Internship Program | 4w | 2 | | | | 4－6 |
| | 必修 required | 1305042 | 口译实践 Interpreting Practice | 4w | 2 | | | | 5 |
| | 必修 required | 1305893 | 计算机辅助翻译实践 CAT Practice | 3w | 1.5 | | | | 6 |
| | 必修 required | 130044b | 科研训练 Scientific Research Training | 2w | 1 | | | | 6 |
| | 必修 required | 1304282 | 专业导学 Freshman Orientation | 8w | 4 | | | | 1，3，5 |
| | 必修 required | 130004a | 毕业设计（论文） Undergraduate Thesis | 16w | 8 | | | | 8 |

# 德语专业本科培养计划

# Undergraduate Program for German

## 一、培养目标

## Ⅰ. Program Objectives

培养德、智、体全面发展的，具有较高的文化素养和良好的心理品质，掌握德语专业必需的理论知识和专业技能，具有较强的实际工作能力的高级专门人才。

The undergraduate program is aimed at producing students proficient in both German and Chinese, with sound moral character, broad knowledge in humanities and professional ethics. With high quality education, the program produces versatile students with the knowledge of German language who are well prepared to do practical work.

## 二、基本规格要求

## Ⅱ. Learning Outcomes

1. 具备良好的思想道德、人文素养和职业素养；

2. 具有国际视野和跨文化交流与合作能力，较强的逻辑思辨能力；

3. 了解中国和德语国家的历史、社会与文化，掌握科技、新闻、政治、经济、外贸、教育、文化等领域的基础知识；

4. 具有扎实的德汉双语基础，熟练的德、汉语笔头和口头表达能力；

5. 了解基本的语言学、文学知识和研究方法，具备一定的研究能力。

Upon successful completion of the program, students will be able to:

1. Demonstrate good moral character, broad knowledge in humanities and professional ethics;

2. Develop global mindset, cultural competence, sophisticated analytical thinking skills;

3. Build up a good understanding of the history, society and culture of China and German-speaking countries, and a general understanding of the fundamentals of science and technology, journalism, politics, economics, foreign trade, education and culture;

4. Be proficient in both German and Chinese with good writing and speaking skills in both languages;

5. Demonstrate rudimentary knowledge and research capability in linguistics and literature.

## 三、培养特色

## Ⅲ. Program Highlights

国际化、复合型、应用型

Internationalized, compound, practical

## 四、主干学科

## Ⅳ. Main Discipline

德语

German

## 五、学制与学位

## Ⅴ. Program Length and Degree

学制：四年

Program length: 4 years

授予学位：文学学士

Degree conferred：Bachelor of Arts

## 六、学时与学分

## Ⅵ. Credit Hours and Units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：179.5 学分

Minimum curriculum credits (including courses and practicum): 179.5 credits

其中，专业基础课程、专业核心课程学分不允许用其他课程学分进行冲抵和替代。

Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：3 学分。

Minimum Extracurricular Credits: 3 credits.

1. 课程体系学时与学分

Course Credit Hours and Units

| 课程类别 | | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|---|
| 通识教育基础课程 | | 必修 | 560/35 | 24.4 |
| | | 选修 | 144/8 | 5.6 |
| 学科(专业)基础课程 | 学科大类基础课程 | 必修 | 1096/68.5 | 47.7 |
| 专业课程 | 专业核心课程 | 必修 | 384/24 | 16.7 |
| | 专业方向课程 | 选修 | 144/8 | 5.6 |
| 合计 | | | 2296/143.5 | 100 |

| Course Type | | Required/Elective | Hrs/Crs | Percentage (%) |
|---|---|---|---|---|
| General Education Core Curriculum | | Required | 560/35 | 24.4 |
| | | Elective | 144/8 | 5.6 |
| Discipline-related Courses | General | Required | 1096/68.5 | 47.7 |
| Major-specific Courses | Core | Required | 384/24 | 16.7 |
| | Elective | Elective | 144/8 | 5.6 |
| Total | | | 2296/143.5 | 100 |

2. 集中性实践教学环节周数与学分

Practicum Credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 2.8 |
| 公益劳动 | 必修 | 1/0.5 | 1.4 |
| 科研训练 | 必修 | 1/0.5 | 1.4 |
| 翻译/教学实习 | 必修 | 4/2 | 5.6 |
| 专业导学 | 必修 | 4/2 | 5.6 |
| PGG 训练 | 必修 | 4/2 | 5.6 |
| 德语教学方法工作坊 | 必修 | 6/3 | 8.3 |
| 德语文学评论工作坊 | 必修 | 8/4 | 11.1 |
| 德语文学翻译工作坊 | 必修 | 8/4 | 11.1 |
| 德语口语工作坊 | 必修 | 8/4 | 11.1 |
| 德语听力工作坊 | 必修 | 8/4 | 11.1 |
| 德语学术写作 | 必修 | 2/1 | 2.8 |
| 毕业设计（论文） | 必修 | 16/8 | 22.2 |
| 合计 | | 72/36 | 100 |

| Course Title | Required /Elective | Weeks / Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 2.8 |
| On-campus Voluntary Work | Required | 1/0.5 | 1.4 |
| Research | Required | 1/0.5 | 1.4 |
| Translation/Teaching Internship | Required | 4/2 | 5.6 |
| Freshman Orientation | Required | 4/2 | 5.6 |
| PGG Training | Required | 4/2 | 5.6 |
| Teaching Methods Workshop | Required | 6/3 | 8.3 |
| Literature Review Workshop | Required | 8/4 | 11.1 |
| Literature Translation Workshop | Required | 8/4 | 11.1 |
| Workshop of Oral German | Required | 8/4 | 11.1 |
| Workshop of German Listening | Required | 8/4 | 11.1 |
| German Academic Writing | Required | 2/1 | 2.8 |
| Undergraduate Thesis | Required | 16/8 | 22.2 |
| Total | | 72/36 | 100 |

3. 课外学分

Extracurricular Credits

| 序号 | 名 称 | 要 求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 2 | 英语及计算机考试 | 全国大学英语六级考试（英语、翻译专业过英语专业八级） | 获六级证书者（英语、翻译专业获英语专业八级证书） | 2 |
| | | 德语专业八级 | 达 120 分以上者 | 2 |
| | | 德福考试 | 达 18 分以上者 | 3 |
| | | 歌德学院德语水平考试 | 获 GSD 或 C2 证书 | 3 |
| | | 托福考试 | 达 90 分以上者 | 3 |
| | | 雅思考试 | 达 6.5 分以上者 | 3 |
| | | GRE 考试 | 达 280 分以上者 | 3 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |
| 3 | 竞赛 | 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 4 | 论文 | 在全国性刊物发表论文 | 每篇论文 | 2-3 |
| 5 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1-3 |
| 6 | 创新 | 视创新情况 | 每项 | 1-3 |

注：参加校体育运动会获第一名、第二名者与校级一等奖等同，获第三名至第五名者与校级二等奖等同，获第六至第八名者与校级三等奖等同。

| No. | Activities | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Community Engagement | Submitting a report and passing the oral defense | | 1 |
| | | Individuals awarded "Active Participant" / Teams awarded "Excellent Performance" by HUST or Hubei Youth League Committee | | 2 |
| 2 | Qualifications | CET-6 (For Non-English majors) / TEM - 8 (For English and Translation majors) | Certificate | 2 |
| | | PGH | 120 Points or Higher | 2 |
| | | Test-DaF | 18 Points or Higher | 3 |
| | | German Test of Goethe Institute | certificate of GSD or C2 | 3 |
| | | TOEFL | Scoring 90 and above | 3 |
| | | IELTS | Scoring 6.5 and above | 3 |
| | | GRE | Scoring 280 and above | 3 |
| | | CATII | Certificate | 2 |
| | | SFLICE (Advanced) | Certificate | 2 |
| | | National Computer Rank Examination | Certificate (Grade 2 or above) | 2 |
| | | Qualifications for Computer and Software Technology Proficiency | Programmer | 2 |
| | | | Senior Programmer | 3 |
| | | | System Analyst | 4 |
| 3 | Competitions | University-level | First Prize | 3 |
| | | | Second Prize | 2 |
| | | | Third Prize | 1 |
| | | Provincial-level | First Prize | 4 |
| | | | Second Prize | 3 |
| | | | Third Prize | 2 |
| | | National-level | First Prize | 6 |
| | | | Second Prize | 4 |
| | | | Third Prize | 3 |
| 4 | Academic Papers | Published in national-level journals | Each paper | 2-3 |
| 5 | Research Programs | Contribution and research capability | Each program | 1-3 |
| 6 | Innovation | Innovation capacity | Each program | 1-3 |

Note: In HUST Sports Meeting, the first and the second prize, the third to the fifth prize, and the sixth prize to the eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## Ⅶ. Main Courses

综合德语 Comprehensive German、高级德语 Advanced German、德语听力 German Listening、德语口语 Oral German、德语阅读 German Reading、德语写作 German Writing、综合练习 Comprehensive Exercise、德语实用语法 Practical German Grammar、德国概况 Introduction to Germany、德汉文学翻译 German-Chinese Literature Translation、汉德文学翻译 Chinese-German Literature Translation、德语名著选读 Selected Reading of German Literature、德国语言文化导读 Leading Reading about German Language and Culture、学术写作 Academic Writing

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Practicum Module (experiments included)

翻译/教学实践 Translation / Teaching Internship、科研训练 Research Training 、德语专业导学 Freshman Orientation、PGG 训练 PGG Training、教学方法工作坊 Teaching Methods Workshop、文学评论工作坊 Literature Review Workshop、文学翻译工作坊 Literature Translation Workshop、

德语口语工作坊 Workshop of Oral German、德语听力工作坊 Workshop of German Listening、德语学术写作 German Academic Writing、毕业设计（论文）Undergraduate Thesis

## 九、教学进程计划表

## Ⅸ. Course Schedule

学院：外国语学院　　专业：德语

School: School of Foreign Languages　　Major: German

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 general education core curriculum | 必修 required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必修 required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必修 required | 0100733 | 马克思主义原理 Basic Principles of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必修 required | 0100932 | 思政课社会实践 Guide to Community Engagement | 24 | 1.5 | 20 | | | 2 |
| | 必修 required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 Introduction to Maoism and Socialist Theory with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必修 required | 0100741 | 形势与政策 Situation and Policy | 32 | 2 | 14 | | | 1-6 |
| | 必修 required | 0510071 | 中国语文 Chinese | 32 | 2 | | | | 2 |
| | 必修 required | 0508453 | 综合英语（一） Comprehensive English （Ⅰ） | 56 | 3.5 | | | | 1 |
| | 必修 required | 0508463 | 综合英语（二） Comprehensive English （Ⅱ） | 56 | 3.5 | | | | 2 |
| | 必修 required | 070001a | 微积分（三） Calculus (III) | 64 | 4 | | | | 1 |
| | 必修 required | 0400111 | 大学体育（一） Physical Education (Ⅰ) | 32 | 1 | | | | 1 |
| | 必修 required | 0400121 | 大学体育（二） Physical Education (Ⅱ) | 32 | 1 | | | | 2 |
| | 必修 required | 0400131 | 大学体育（三） Physical Education (Ⅲ) | 32 | 1 | | | | 3 |
| | 必修 required | 0400141 | 大学体育（四） Physical Education (Ⅳ) | 32 | 1 | | | | 4 |
| | 必修 required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 1 |
| | 必修 required | 0827791 | 计算机与程序设计基础（VB） Fundamental of Computer Programming (C++) | 48 | 3 | | | 8 | 1 |
| | 必修 required | | 自然科学类选修课程 Electives in Natural Sciences | 128 | 8 | | | | 1-8 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 学科大类基础课程 general discipline-related coursese | 必修 required | 0510011 | 综合德语（一） Comprehensive German（Ⅰ） | 64 | 4 | | | | 1 |
| | 必修 required | 0510021 | 综合德语（二） Comprehensive German （Ⅱ） | 64 | 4 | | | | 1 |
| | 必修 required | 0510031 | 综合德语（三） Comprehensive German（Ⅲ） | 64 | 4 | | | | 2 |
| | 必修 required | 0510041 | 综合德语（四） Comprehensive German（Ⅳ） | 64 | 4 | | | | 2 |
| | 必修 required | 0510051 | 高级德语（一） Advanced German（Ⅰ） | 64 | 4 | | | | 3 |
| | 必修 required | 0510061 | 高级德语（二） Advanced German（Ⅱ） | 64 | 4 | | | | 3 |
| | 必修 required | 0507661 | 高级德语（三） Advanced German（Ⅲ） | 64 | 4 | | | | 4 |
| | 必修 required | 0512891 | 高级德语（四） Advanced German（Ⅳ） | 64 | 4 | | | | 4 |
| | 必修 required | 0507721 | 德语口语（一） Oral German （Ⅰ） | 40 | 2.5 | | | | 1 |
| | 必修 required | 0507731 | 德语口语（二） Oral German （Ⅱ） | 64 | 4 | | | | 2 |
| | 必修 required | 0507741 | 德语口语（三） Oral German （Ⅲ） | 64 | 4 | | | | 3 |
| | 必修 required | 0507671 | 德语听力（一） German Listening （Ⅰ） | 40 | 2.5 | | | | 1 |
| | 必修 required | 0507681 | 德语听力（二） German Listening （Ⅱ） | 64 | 4 | | | | 2 |
| | 必修 required | 0507691 | 德语听力（三） German Listening （Ⅲ） | 64 | 4 | | | | 3 |
| | 必修 required | 0507761 | 德语阅读（一） German Reading Practice（Ⅰ） | 32 | 2 | | | | 3 |
| | 必修 required | 0507771 | 德语阅读（二） German Reading Practice（Ⅱ） | 32 | 2 | | | | 4 |
| | 必修 required | 0512901 | 德语综合练习（一） German Comprehensive Exercise（Ⅰ） | 24 | 1.5 | | | | 1 |
| | 必修 required | 0512911 | 德语综合练习（二） German Comprehensive Exercise （Ⅱ） | 32 | 2 | | | | 2 |
| | 必修 required | 0512921 | 德语综合练习（三） German Comprehensive Exercise（Ⅲ） | 32 | 2 | | | | 3 |
| | 必修 required | 0512931 | 德语综合练习（四） German Comprehensive Exercise（Ⅳ） | 32 | 2 | | | | 4 |
| | 必修 required | 0507841 | 德语实用语法 Practical German Grammar | 32 | 2 | | | | 3 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必修 required | 0507831 | 德国概况 Introduction to Germany | 32 | 2 | | | | 4 |
| 专业核心课程 major-specific core courses | | | 专业核心课程（2 组都必选） | | | | | | |
| | | | 专业核心课程 A 德语文学与文化 | | | | | | |
| | 必修 required | 0512961 | 德语名著选读（一） Selected Reading of German Literature（Ⅰ） | 64 | 4 | | | | 5 |
| | 必修 required | 0512971 | 德语名著选读（二） Selected Reading of German Literature（Ⅱ） | 64 | 4 | | | | 6 |
| | 必修 required | 0512981 | 德语名著选读（三） Selected Reading of German Literature（Ⅲ） | 64 | 4 | | | | 7 |
| | | | 专业核心课程 B 德语语言与写作 | | | | | | |
| | 必修 required | 0512991 | 德国语言文化导读（一） Leading Reading about German Language and Culture（Ⅰ） | 32 | 2 | | | | 5 |
| | 必修 required | 0513001 | 德国语言文化导读（二） Leading Reading about German Language and Culture（Ⅱ） | 32 | 2 | | | | 6 |
| | 必修 required | 0507791 | 德语写作（一） German Writing （Ⅰ） | 32 | 2 | | | | 3 |
| | 必修 required | 0507811 | 德语写作（二） German Writing （Ⅱ） | 32 | 2 | | | | 4 |
| | 必修 required | 0512941 | 德汉文学翻译 German-Chinese Literature Translation | 32 | 2 | | | | 5 |
| | 必修 required | 0512951 | 汉德文学翻译 Chinese-German Literature Translation | 32 | 2 | | | | 6 |
| 专业方向课程 major-specific elective courses | | | 专业方向选修课程（2 组任选 1 组） Major-specific Electives (one out of the two groups) | 128 | 8 | | | | |
| | | | 专业方向选修课程 A Major-specific Electives, Group A | 128 | 8 | | | | |
| | 选 修 Elective | 0513261 | 德语文学简史 History of German Literature | 32 | 2 | | | | 5 |
| | 选 修 Elective | 0512511 | 德语文学评论 Review of German Literature | 32 | 2 | | | | 6 |
| | 选 修 Elective | 0513021 | 中德文学交流史 History of Sino-German Literature Exchange | 32 | 2 | | | | 7 |
| | 选 修 Elective | 0513031 | 德国思想经典 Classics of German Thought | 32 | 2 | | | | 7 |
| | 选 修 Elective | 0507971 | 德国文化史 History of German Culture | 32 | 2 | | | | 6 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业方向课程 major-specific elective courses | 选 修 Elective | 0502142 | 跨文化交际 Cross- cultural Communication | 32 | 2 | | | | 7 |
| | 选 修 Elective | 0512471 | 德国历史 German History | 32 | 2 | | | | 7 |
| | 选 修 Elective | 0508011 | 德国政治 German Politics | 32 | 2 | | | | 7 |
| | 选 修 Elective | 0512481 | 基督教文化 Christian Culture | 32 | 2 | | | | 7 |
| | 选 修 Elective | 0513041 | 德语《圣经》导读 Introduction to German Bible | 32 | 2 | | | | 7 |
| | 选 修 Elective | 0513051 | 德国宗教与文化 German Religions and Culture | 32 | 2 | | | | 7 |
| | | | 专业方向选修课程 B Major-specific Electives, Group B | 128 | 8 | | | | |
| | 选 修 Elective | 0504901 | 普通语言学 General Linguistics | 32 | 2 | | | | 7 |
| | 选 修 Elective | 0500201 | 词汇学 Lexicology | 32 | 2 | | | | 7 |
| | 选 修 Elective | 0507961 | 德语简史 History of German Language | 32 | 2 | | | | 7 |
| | 选 修 Elective | 0501942 | 高级听力 Advanced German Listening | 32 | 2 | | | | 5 |
| | 选 修 Elective | 0512491 | 高级口语 Advanced Oral German | 32 | 2 | | | | 6 |
| | 选 修 Elective | 0504941 | 高级口译 Advanced Interpretation | 32 | 2 | | | | 7 |
| | 选 修 Elective | 0504881 | 科技阅读 Reading in Science & Technology | 32 | 2 | | | | 7 |
| | 选 修 Elective | 0508021 | 德国经济 German Economy | 32 | 2 | | | | 7 |
| | 选 修 Elective | 0508041 | 商务德语 Business German | 32 | 2 | | | | 7 |
| | 选 修 Elective | 0508031 | 德语外贸应用文 German Practical Business Writing | 32 | 2 | | | | 6 |
| | 选 修 Elective | 0508051 | 因特网德语 German Language in Internet | 32 | 2 | | | | 7 |
| | 必修 required | 1300012 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必修 required | 1304281 | 专业导学 Freshman Orientation | 4w | 2 | | | | 1 |
| | 必修 required | 1304351 | PGG 训练 PGG Training | 4w | 2 | | | | 4 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 实践环节 practicum module | 必修 required | 0507751 | 德语口语工作坊 Workshop of Oral German | 8w | 4 | | | | 4 |
| | 必修 required | 0507711 | 德语听力工作坊 Workshop of German Listening | 8w | 4 | | | | 4 |
| | 必修 required | 1304371 | 德语文学评论工作坊 Workshop of German Literature Review | 8w | 4 | | | | 6 |
| | 必修 required | 130044a | 科研训练 Scientific Research Training | 1w | 0.5 | | | | 6 |
| | 必修 required | 1300033 | 翻译/教学实习 Translation/Teaching Internship | 4w | 2 | | | | 6 |
| | 必修 required | 1304361 | 德语教学法工作坊 Workshop of German Teaching Skill | 6w | 3 | | | | 7 |
| | 必修 required | 1304381 | 德语文学翻译工作坊 Workshop of German Literature Translation | 8w | 4 | | | | 7 |
| | 必修 required | 1300024 | 公益劳动 On-campus Voluntary Work | 1w | 0.5 | | | | 8 |
| | 必修 required | 0513011 | 德语学术写作 German Academic Writing | 16 | 1 | | | | 8 |
| | 必修 required | 130004a | 毕业设计（论文） Undergraduate Thesis | 16w | 8 | | | | 8 |

# 法语专业本科培养计划

# Undergraduate Program in French

## 一、培养目标

## Ⅰ. Program Objectives

本专业培养具有扎实的法汉双语基础，德、智、体全面发展的，具有较高的文化素养和良好的心理素质，掌握法语专业必需的理论知识和专业技能，具有较强的实际工作能力的高级专业人才。

The undergraduate program is aimed at producing students proficient in both French and Chinese, with sound moral character, broad knowledge in humanities and professional ethics. With high quality education, the program produces versatile students with the knowledge of French language who are well prepared to do practical work.

## 二、培养要求

## Ⅱ. Learning outcomes

毕业生应具备以下几方面的知识和能力：

1. 具备良好的思想道德、人文素养和职业素养；

2. 具有国际视野和跨文化交流与合作能力，以及较强的逻辑思辨能力；

3. 了解法语国家的历史、社会与文化，掌握科技、新闻、政治、经济、外贸、教育、文化等领域的基础知识；

4. 具有扎实的法汉双语基础，熟练的法汉笔头和口头表达能力；

5. 了解基本的语言学、文学知识和研究方法，具备一定的科研能力。

Upon successful completion of the program, students will be able to:

1. Demonstrate good moral character, broad knowledge in humanities and professional ethics;

2. Develop global mindset, cultural competence, sophisticated analytical thinking skills;

3. Build up a good understanding of the history, society and culture of French-speaking countries, and a general understanding of the fundamentals of science and technology, journalism, politics, economics, foreign trade, education and culture;

4. Be proficient in both French and Chinese with good writing and speaking skills;

5. Demonstrate rudimentary knowledge and research capability in Linguistics and Literature.

## 三、培养特色

## Ⅲ. Program Highlights

复合型、应用型

Interdisciplinary; practical

## 四、主干学科

## Ⅳ. Academic Discipline

法语

French

## 五、学制与学位

## Ⅴ. Program Length and Degree

学制：四年

Program length: 4 years

授予学位：文学学士

Degree conferred：Bachelor of Arts

## 六、学时与学分

## Ⅵ. Credit Hours and Units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：186 学分。

其中，专业基础课程、专业核心课程学分不允许用其他课程学分进行学分冲抵和替代。

Minimum curriculum credits (including courses and practicum): 186

Major-related basic courses and core courses can not be covered using credits from other courses in the program.

完成学业最低课外学分要求：3 学分。

Minimum extracurricular credits: 3

1.课程体系学时与学分

Course Credit Hours and credits

| 课程类别 | | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|---|
| 通识教育基础课程 | | 必修 | 560/35 | 23.65 |
| | | 选修 | 128/8 | 5.41 |
| 学科专业基础课程 | 学科大类基础课程 | 必修 | 1280/80 | 54.05 |
| | 学科专业基础课程 | 必修 | 144/9 | 6.08 |
| 专业课程 | 专业核心课程 | 必修 | 96/6 | 4.05 |
| | 专业方向课程 | 选修 | 160/10 | 6.76 |
| 合计 | | | 2368/148 | 100 |

| Course Type | | Course Nature | Hrs/Crs | Percentage (%) |
|---|---|---|---|---|
| General Education Core Curriculum | | Required | 560/35 | 23.65 |
| | | Elective | 128/8 | 5.41 |
| Discipline-related Courses | General | Required | 1280/80 | 54.05 |
| | Sub-disciplinary Basic | Required | 144/9 | 6.08 |
| Major-specific Courses | Core | Required | 96/6 | 4.05 |
| | Elective | Elective | 160/10 | 6.76 |
| Total | | | 2368/148 | 100 |

2.集中性实践教学环节周数与学分

Practicum Credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 2 |
| 公益劳动 | 必修 | 1/0.5 | 1 |
| 专业导学 | 必修 | 4/2 | 4 |
| 科研训练 | 必修 | 1/0.5 | 1 |
| 专业实习 | 必修 | 4/2 | 4 |
| 毕业设计（论文） | 必修 | 16/8 | 16 |
| 法语语音工作坊 | 选修 | 4/2 | 4 |
| 法语演讲与辩论工作坊 | 选修 | 4/2 | 4 |
| 法语阅读工作坊 | 选修 | 20/10 | 20 |
| 法语写作工作坊 | 选修 | 20/10 | 20 |

续表

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 法语笔译工作坊 | 选修 | 4/2 | 4 |
| 法语口译工作坊 | 选修 | 4/2 | 4 |
| DELF 工作坊 | 选修 | 4/2 | 4 |
| DALF 工作坊 | 选修 | 4/2 | 4 |
| 法语语法工作坊 | 选修 | 8/4 | 8 |
| 合计 | | 100/50 | 100 |

| Course Title | Required /Elective | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 2 |
| On-campus Voluntary Work | Required | 1/0.5 | 1 |
| Freshman Orientation | Required | 4/2 | 4 |
| Research | Required | 1/0.5 | 1 |
| Internship Program | Required | 4/2 | 4 |
| Under- graduate Thesis | Required | 16/8 | 16 |
| French Phonetics | Elective | 4/2 | 4 |
| French Public Speaking and Debating Workshop | Elective | 4/2 | 4 |
| French Reading Workshop | Elective | 20/10 | 20 |
| French Writing Workshop | Elective | 20/10 | 20 |
| French Translation Workshop | Elective | 4/2 | 4 |
| French Interpreting Workshop | Elective | 4/2 | 4 |
| DELF Workshop | Elective | 4/2 | 4 |
| DALF Workshop | Elective | 4/2 | 4 |
| French Grammar Workshop | Elective | 8/4 | 8 |
| Total | | 100/50 | 100 |

3.课外学分

Extracurricular Credits

| 序号 | 名 称 | 要 求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 2 | 全国外语及计算机考试 | TCF/TEF(法语水平测试) | B1 及以上 | 2 |
| | | 法语专业四级考试 | 获证书者 | 2 |
| | | 法语专业八级考试 | 获证书者 | 2 |
| | | 全国大学英语六级考试 | 获证书者 | 2 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |
| 3 | 竞赛 | 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 4 | 论文 | 在全国性刊物发表论文 | 每篇论文 | 2-3 |
| 5 | 科研 | 视参与科研项目时间与科研能力而定 | 每项 | 1-3 |
| 6 | 实验 | 视创新情况 | 每项 | 1-3 |

| No. | Activities | Requirements | | Crs |
|---|---|---|---|---|
| 1 | Community Engagement | Submitting a report and passing the oral defense | | 1 |
| | | Individuals awarded “Active Participant” / Teams awarded “Excellent Performance” by HUST or Hubei Youth League Committee | | 2 |
| 2 | Qualifications | TCF/TEF | B1 or higher | 2 |
| | | TFS－4 | Certificate | 2 |
| | | TFS－8 | Certificate | 2 |
| | | CET－6 | Certificate | 2 |
| | | National Computer Rank Examination | Certificate (Grade 1 / 2) | 2 |
| | | Qualifications for Computer and Software Technology Proficiency | Programmer | 2 |
| | | | Senior Programmer | 3 |
| | | | System Analyst | 4 |
| 3 | Competitions | University-level | First Prize | 3 |
| | | | Second Prize | 2 |
| | | | Third Prize | 1 |
| | | Provincial-level | First Prize | 4 |
| | | | Second Prize | 3 |
| | | | Third Prize | 2 |
| | | National-level | First Prize | 6 |
| | | | Second Prize | 4 |
| | | | Third Prize | 3 |
| 4 | Academic Papers | Published in national-level journals | Each paper | 2-3 |
| 5 | Research Programs | Contribution and research capability | Each program | 1-3 |
| 6 | Experiments | Innovation capacity | Each experiment | 1-3 |

## 七、主要课程

## Ⅶ. Main Courses

基础法语 Basic French，高级法语 Advanced French，法语泛读 Extensive Reading，法语视听 French Viewing and Listening，法语口语 Oral French，法语应用与写作 French Application and Writing，法国文化 French Culture，翻译理论与实践 Translation Theory and Practice，语言学 Linguistics。

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Main Practicum Modules (experiments included)

专业实习 Internship program、毕业论文 Undergraduate thesis、工作坊 Workshops

## 九、教学进程计划表

## IX. Course Schedule

院(系)：外国语学院　　专业：法语

School: School of Foreign Languages　　Major: French

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| | 必　修 Required | 0301902 | 思想道德修养与法律基础 Morals&Ethics and Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必　修 Required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必 修 Required | 0100932 | 思政课社会实践 Guide to Community Engagement | 24 | 1.5 | 20 | | | 2 |
| | 必 修 Required | 0100733 | 马克思主义基本原理 Basic Principles of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必 修 Required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 Introduction to Maoism and Socialism with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必 修 Required | 0100741 | 形势与政策 Current Affairs and Policy | 32 | 2 | 14 | | | 1-6 |
| | 必 修 Required | 0400111 | 大学体育（一） Physical Education (I) | 16 | 1 | | | | 1 |
| | 必 修 Required | 0400121 | 大学体育（二） Physical Education (II) | 16 | 1 | | | | 2 |
| | 必 修 Required | 0400131 | 大学体育（三） Physical Education (III) | 16 | 1 | | | | 3 |
| | 必 修 Required | 0400141 | 大学体育（四） Physical Education (IV) | 16 | 1 | | | | 4 |
| | 必 修 Required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 1 |
| | 必 修 Required | 0508453 | 综合英语（一） Comprehensive English (I) | 56 | 3.5 | | | | 1 |
| | 必 修 Required | 0508463 | 综合英语（二） Comprehensive English (II) | 56 | 3.5 | | | | 2 |
| | 必 修 Required | 070001a | 微积分（三） Calculus (III) | 64 | 4 | | | | 1 |
| | 必 修 Required | 0827791 | 计算机与程序设计基础(VB) Visual Basic Programming | 48 | 3 | | | 8 | 1 |
| | 必 修 Required | 0510071 | 中国语文 Chinese | 32 | 2 | | | | 2 |
| | | | 自然科学公共选修课 Electives in Natural Sciences | 128 | 8 | | | | 1-8 |
| 学科大类基础课程 Discipline-related General Courses | 必 修 Required | 0513381 | 法语精读（一） Comprehensive French (I) | 56 | 3.5 | | | | 1 |
| | 必 修 Required | 0512582 | 法语精读（二） Comprehensive French (II) | 64 | 4 | | | | 2 |
| | 必 修 Required | 0512592 | 法语精读（三） Comprehensive French (III) | 64 | 4 | | | | 3 |
| | 必 修 Required | 0512602 | 法语精读（四） Comprehensive French (IV) | 64 | 4 | | | | 4 |
| | 必 修 Required | 0513361 | 基础法语（一） Basic French (I) | 56 | 3.5 | | | | 1 |
| | 必 修 Required | 0513751 | 基础法语（二） Basic French (II) | 64 | 4 | | | | 2 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 学科大类基础课程 Discipline- related General Courses | 必 修 Required | 0513761 | 基础法语（三） Basic French(III) | 64 | 4 | | | | 3 |
| | 必 修 Required | 0513771 | 基础法语（四） Basic French(IV) | 64 | 4 | | | | 4 |
| | 必 修 Required | 0513781 | 法语泛读（一） Extensive Reading (I) | 64 | 4 | | | | 2 |
| | 必 修 Required | 0513791 | 法语泛读（二） Extensive Reading (II) | 64 | 4 | | | | 3 |
| | 必 修 Required | 0513801 | 法语泛读（三） Extensive Reading (III) | 64 | 4 | | | | 4 |
| | 必 修 Required | 0513811 | 法语泛读（四） Extensive Reading (IV) | 32 | 2 | | | | 5 |
| | 必 修 Required | 0512631 | 法语视听（一） French Viewing and Listening (I) | 56 | 3.5 | | | | 1 |
| | 必 修 Required | 0512641 | 法语视听（二） French Viewing and Listening (II) | 64 | 4 | | | | 2 |
| | 必 修 Required | 0512651 | 法语视听（三） French Viewing and Listening (III) | 64 | 4 | | | | 3 |
| | 必 修 Required | 0512661 | 法语视听（四） French Viewing and Listening (IV) | 64 | 4 | | | | 4 |
| | 必 修 Required | 0513821 | 法语视听（五） French Viewing and Listening (IV) | 64 | 4 | | | | 5 |
| | 必 修 Required | 0513371 | 法语口语（一） Oral French (I) | 56 | 3.5 | | | | 1 |
| | 必 修 Required | 0512723 | 法语口语（二） Oral French (II) | 64 | 4 | | | | 2 |
| | 必 修 Required | 0512731 | 法语口语（三） Oral French (III) | 32 | 2 | | | | 3 |
| | 必 修 Required | 0512732 | 法语口语（四） Oral French (IV) | 32 | 2 | | | | 4 |
| | 必 修 Required | 0513831 | 法语口语（五） Oral French (V) | 32 | 2 | | | | 5 |
| | 必 修 Required | 0513841 | 法语口语（六） Oral French (VI) | 32 | 2 | | | | 6 |
| 学科专业基础课程 Basic Sub- disciplinary Courses | 必 修 Required | 0512742 | 高级法语（一） Advanced French(I) | 64 | 4 | | | | 5 |
| | 必 修 Required | 0512751 | 高级法语（二） Advanced French (II) | 32 | 2 | | | | 6 |
| | 必 修 Required | 0513851 | 学术法语写作 Academic French Writing | 16 | 1 | | | | 8 |
| | 必 修 Required | 051282 | 法语应用与写作 French Application and Writing | 32 | 2 | | | | 6 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业核心课程 Major-specific Core Courses | 必 修 Required | 0508943 | 法国文化 French Culture | 32 | 2 | | | | 5 |
| | 必 修 Required | 0501051 | 语言学 Linguistics | 32 | 2 | | | | 5 |
| | 必 修 Required | 0513861 | 翻译理论与实践 Translation Theory and Practice | 32 | 2 | | | | 5 |
| 专业方向课程 Major-specific Electives | | | 专业方向选修课程（需选修5-6门课程，修满10学分） Any 5 or 6 from the following (10 credits) | | | | | | |
| | | | 法国文化课程 French Culture Module | | | | | | |
| | 选 修 Elective | 0513871 | 法国历史 French History | 32 | 2 | | | | 6 |
| | 选 修 Elective | 0512861 | 法国文学史 History of French Literature | 32 | 2 | | | | 6 |
| | 选 修 Elective | 0513881 | 法国艺术史 French Art History | 32 | 2 | | | | 6 |
| | 选 修 Elective | 0512821 | 法国文学选读 French Literature Readings | 32 | 2 | | | | 7 |
| | 选 修 Elective | 0513891 | 法国政治与经济 French Politics and Economics | 32 | 2 | | | | 7 |
| | 选 修 Elective | 0513901 | 法国当代专题 French Contemporary Topics | 32 | 2 | | | | 7 |
| | 选 修 Elective | 0513911 | 法语区文化 Francophone culture | 32 | 2 | | | | 7 |
| | | | 语言学课程 Linguistics Module | | | | | | |
| | 选 修 Elective | 0513921 | 法语形态学 French morphology | 32 | 2 | | | | 6 |
| | 选 修 Elective | 0513931 | 法语词汇学 French lexicology | 32 | 2 | | | | 6 |
| | 选 修 Elective | 0513941 | 法语语义学 French Semantics | 32 | 2 | | | | 6 |
| | 选 修 Elective | 0513951 | 法语句法学 French Syntax | 32 | 2 | | | | 6 |
| | 选 修 Elective | 0513961 | 法语修辞学 French rhetoric | 32 | 2 | | | | 7 |
| | 选 修 Elective | 0513971 | 法语文体学 French Stylistics | 32 | 2 | | | | 7 |
| | 选 修 Elective | 0513981 | 法语语用学 French pragmatics | 32 | 2 | | | | 7 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业方向课程 Major-specific Electives | | | 翻译理论与实践课程<br>French Translation Theory and Practice Module | | | | | | |
| | 选 修 Elective | 0504861 | 基础口译<br>Fundamental Interpretation | 32 | 2 | | | | 6 |
| | 选 修 Elective | 0511811 | 商务口译<br>Business Interpretation | 32 | 2 | | | | 6 |
| | 选 修 Elective | 0511731 | 交替传译<br>Consecutive Interpretation | 32 | 2 | | | | 6 |
| | 选 修 Elective | 0513991 | 影视翻译<br>Film Translation | 32 | 2 | | | | 7 |
| | 选 修 Elective | 0514001 | 中国文化翻译<br>Chinese Cultural Translation | 32 | 2 | | | | 7 |
| | 选 修 Elective | 0502421 | 科技翻译<br>Technical Translation | 32 | 2 | | | | 7 |
| | 选 修 Elective | 0511831 | 文学翻译<br>Literary Translation | 32 | 2 | | | | 7 |
| 实践环节 Practicum Module | | | 工作坊类项目需任选4-5项，实践环节总共修满38学分<br>Required items + Any 4-5 workshops (38 credits) | | | | | | |
| | 必 修 Required | 1300013 | 军事训练<br>Military Training | 2w | 1 | | | | 1 |
| | 必 修 Required | 1300024 | 公益劳动<br>On-campus Voluntary Work | 1w | 0.5 | | | | 8 |
| | 必 修 Required | 1304281 | 专业导学<br>Freshman Orientation | 4w | 2 | | | | 1 |
| | 必 修 Required | 130044a | 科研训练<br>Research | 1w | 0.5 | | | | 6 |
| | 必 修 Required | 130007d | 专业实习<br>Internship Program | 4w | 2 | | | | 4-6 |
| | 必 修 Required | 130004a | 毕业设计（论文）<br>Under-graduate Thesis | 16w | 8 | | | | 8 |
| | 选 修 Elective | 1306151 | 法语语音工作坊<br>French Phonetics Workshop | 4w | 2 | | | | 1 |
| | 选 修 Elective | 1306161 | 法语演讲与辩论工作坊<br>French Public Speaking and Debating Workshop | 4w | 2 | | | | 4 |
| | 选 修 Elective | 1306171 | 法语阅读工作坊<br>French Reading Workshop | 20w | 10 | | | | 2-6 |
| | 选 修 Elective | 1306181 | 法语写作工作坊<br>French Writing Workshop | 20w | 10 | | | | 2-6 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 实践环节 Practicum Module | 选　修 Elective | 1306191 | 法语笔译工作坊 French Translation Workshop | 4w | 2 | | | | 6 |
| | 选　修 Elective | 1306201 | 法语口译工作坊 French Interpreting Workshop | 4w | 2 | | | | 5 |
| | 选　修 Elective | 1306211 | DELF 工作坊 DELF Workshop | 4w | 2 | | | | 4 |
| | 必　修 Required | 1306221 | 法语语法工作坊 French Grammar Workshop | 8w | 4 | | | | 3-4 |

# 翻译本科专业人才培养计划

# Undergraduate Program in Translation and Interpreting

## 一、培养目标

## Ⅰ. Program Objectives

本专业培养具有扎实的英汉双语基础、较强的翻译能力、丰富的百科知识，了解翻译学科基础理论，并具备一定翻译研究能力的应用复合型翻译专业人才。本专业毕业生能胜任科技、新闻、外交、经贸、教育、文化等领域的一般性口笔译工作和其他语言服务工作。

The undergraduate program in Translation and Interpreting is aimed at producing interdisciplinary students proficient in both English and Chinese, with strong translation and interpreting competence and a general knowledge of translation theories, and prepared for academic study in translation and interpreting studies. Students are expected to be competent in offering essential translation, interpreting and other language services in various fields including science and technology, news media, foreign affairs, economics and trade, education and culture.

## 二、基本规格要求

## Ⅱ. Learning outcomes

1. 具备良好的思想道德、人文素养和职业素养；

2. 具有国际视野和跨文化交流与合作能力，较强的逻辑思辨能力和信息加工能力；

3. 了解中国和主要英语国家的历史、社会与文化，掌握科技、新闻、政治、经济、 外贸、教育、文化等领域的基础知识；

4. 具有扎实的英汉双语基础，熟练的英、汉语笔头和口头表达能力；

5. 掌握各种场合的交替传译技能与策略，不同文体的笔译能力和熟练运用翻译工具 辅 助 翻译的能力；

6. 了解中外翻译史、基础翻译理论、翻译行业的现状和发展趋势；

7. 了解基本的语言学、文学知识和翻译研究方法，具备一定的翻译研究能力。

Upon successful completion of the program, students will be able to:

1. Demonstrate good moral character, broad knowledge in humanities and professional ethics;

2. Develop global mindset, cultural competence, sophisticated analytical thinking skills and information processing capacities;

3. Build up a good understanding of the history, society and culture of China and the most popular English-speaking countries, and a general understanding of the fundamentals of science and technology, journalism, politics, economics, foreign trade, education and culture;

4. Be proficient in both English and Chinese with wonderful writing and speaking skills in both languages;

5. Acquire consecutive interpreting skills on various occasions, skills to translate different text-types, and use CAT programs and other translation tools effectively;

6. Develop an understanding of the history of translation, translation theories, current and future trends in the translation industry;

7. Demonstrate rudimentary knowledge of linguistics, literature and approaches to translation studies, and capability to carry out research in the field of translation and interpreting studies.

## 三、培养特色

## Ⅲ. Program Highlights

翻译能力为导向、复合型

Translation and interpreting competence-oriented; interdisciplinary

## 四、主干学科

## Ⅳ. Main Discipline

翻译学

Translation Studies

## 五、学制与学位

## Ⅴ. Program Length and Degree

学制：四年

Program length: 4 years

授予学位：文学学士

Degree conferred : Bachelor of Arts

## 六、学时与学分

## Ⅵ. Credits Hours and Units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：164 学分。其中，专业基础课程、专业核心课程学分不允许用其他课程学分进行学分冲抵和替代。

Minimum curriculum credits (including courses and practicum): 164 credits

Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：3 学分。

Minimum extracurricular credits: 3 credits.

1.课程体系学时与学分

Course Credit Hours and Units

| 课程类别 | | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|---|
| 通识教育基础课程 | | 必修 | 576/36 | 21.9 |
| | | 选修 | 128/8 | 4.9 |
| 学科（大类）基础课程 | | 必修 | 864/54 | 32.9 |
| 专业课程 | 专业核心课程 | 必修 | 192/12 | 7.4 |
| | 专业选修课程 | 选修 | 320/20 | 12.2 |
| 集中性实践教学环节 | | 必修 | 68/34 | 20.7 |
| 合计 | | | 2624/164 | 100 |

| Course Type | | Required /Elective | Hrs/Crs | Percentage (%) |
|---|---|---|---|---|
| General Education Core Curriculum | | Required | 576/36 | 21.9 |
| | | Elective | 128/8 | 4.9 |
| General Discipline-related Courses | | Required | 576/36 | 32.9 |
| Major-specific Courses | Core | Required | 192/12 | 7.4 |
| | Elective | Elective | 320/20 | 12.2 |
| Practicum | | Required | 68/34 | 20.7 |
| Total | | | 2624/164 | 100 |

2.集中性实践教学环节周数与学分

Practicum Credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 3 |
| 公益劳动 | 必修 | 1/0.5 | 1.6 |
| 专业导学 | 必修 | 4/2 | 5.8 |
| 科研训练 | 必修 | 1/0.5 | 1.6 |
| 专业实习 | 必修 | 4/2 | 5.8 |
| 科技实践 | 必修 | 2/1 | 3 |
| 毕业设计（论文） | 必修 | 16/8 | 23.6 |
| 听力训练 | 必修 | 4/2 | 5.8 |
| 学术英语写作 | 必修 | 2/1 | 3 |
| 英语阅读工作坊 | 选修 | 8/4 | 11.8 |
| 英语写作工作坊 | 选修 | 8/4 | 11.8 |
| 英语演讲与辩论工作坊 | 选修 | 4/2 | 5.8 |
| 模联工作坊 | 选修 | 4/2 | 5.8 |
| 笔译工作坊 | 选修 | 4/2 | 5.8 |
| 口译工作坊 | 选修 | 4/2 | 5.8 |
| 合计 | | 68/34 | 100 |

| Course Title | Required /Elective | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 3 |
| On-campus Voluntary Work | Required | 1/0.5 | 1.6 |
| Freshman Orientation | Required | 4/2 | 5.8 |
| Research | Required | 1/0.5 | 1.6 |
| Internship Program | Required | 4/2 | 5.8 |
| Field Trip | Required | 2/1 | 3 |
| Undergraduate Thesis | Required | 16/8 | 23.6 |
| English Listening Training | Required | 4/2 | 5.8 |
| Academic English Writing | Required | 2/1 | 3 |
| English Reading Workshop | Elective | 8/4 | 11.8 |
| English Writing Workshop | Elective | 8/4 | 11.8 |
| English Public Speaking and Debating Workshop | Elective | 4/2 | 5.8 |
| MUN Workshop | Elective | 4/2 | 5.8 |
| Translation Workshop | Elective | 4/2 | 5.8 |
| Interpreting Workshop | Elective | 4/2 | 5.8 |
| Total | | 68/34 | 100 |

3.课外学分

Extracurricular Credits

| 序号 | 名 称 | 要 求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 2 | 英语及计算机考试 | 全国大学英语六级考试（英语、翻译专业过英语专业八级） | 获六级证书者（英语、翻译专业获英语专业八级证书） | 2 |
| | | 全国大学日语/法语/德语等四级考试 | 获证书者 | 2 |
| | | 托福考试 | 达 90 分以上者 | 3 |
| | | 雅思考试 | 达 6.5 分以上者 | 3 |
| | | GRE 考试 | 达 280 分以上者 | 3 |
| | | 全国翻译专业资格(水平)考试 | 获证书者 | 2 |
| | | 上海英语高级口译证书考试 | 获证书者 | 2 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |

续表

| 序号 | 名 称 | 要 求 | | 课外学分 |
|---|---|---|---|---|
| 3 | 竞赛 | 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 4 | 论文 | 在全国性刊物发表论文 | 每篇论文 | 2-3 |
| 5 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1-3 |
| 6 | 创新 | 视创新情况 | 每项 | 1-3 |

注：在校运动会上参加某项目获得第一名、第二名，等同于校级竞赛一等奖；获得 3—5 名，等同于校级竞赛二等奖；获得 6—8 名，等同于校级竞赛三等奖。

| No. | Activities | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Community Engagement | Submitting a report and passing the oral defense | | 1 |
| | | Individuals awarded “Active Participant” / Teams awarded “Excellent Performance” by HUST or Hubei Youth League Committee | | 2 |
| 2 | Qualifications | CET-6 (For Non-English majors) / TEM - 8 (For English and Translation majors) | Certificate | 2 |
| | | CJT/TFU/PHSD - 4 | Certificate | 2 |
| | | TOEFL | Scoring 90 and above | 3 |
| | | IELTS | Scoring 6.5 and above | 3 |
| | | GRE | Scoring 280 and above | 3 |
| | | CATII | Certificate | 2 |
| | | SFLICE (Advanced) | Certificate | 2 |
| | | National Computer Rank Examination | Certificate (Grade 2 or above) | 2 |
| | | Qualifications for Computer and Software Technology Proficiency | Programmer | 2 |
| | | | Senior Programmer | 3 |
| | | | System Analyst | 4 |
| 3 | Competitions | University-level | First Prize | 3 |
| | | | Second Prize | 2 |
| | | | Third Prize | 1 |
| | | Provincial-level | First Prize | 4 |
| | | | Second Prize | 3 |
| | | | Third Prize | 2 |
| | | National-level | First Prize | 6 |
| | | | Second Prize | 4 |
| | | | Third Prize | 3 |
| 4 | Academic Papers | Published in national-level journals | Each paper | 2-3 |
| 5 | Research Programs | Contribution and research capability | Each program | 1-3 |
| 6 | Innovation | Innovation capacity | Each Program | 1-3 |

Note: In HUST Sports Meeting, the first and the second prize, the third to the fifth prize, and the sixth prize to the eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

## Ⅶ. Main Courses

英语精读 Comprehensive English，英语听力 English Listening，英语写作 English Writing，英语演讲与辩论 English Public Speaking and Debate，中国语言文化 Chinese Language and Culture，英汉语言对比 Comparative Studies of English and Chinese，翻译概论 Introduction to Translation，英汉翻译 English-Chinese Translation，汉英翻译 Chinese-English Translation,基础口译 Introduction to Interpreting,交替传译 Consecutive Interpreting，计算机辅助翻译 Computer Aided Translation，实用翻译 Practical Translation

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Practicum Module (experiments included)

专业实习 Internship program、毕业论文 Undergraduate thesis、工作坊 Workshops

## 九、教学进程计划表

## Ⅸ. Course Schedule

院（系）：外国语学院　　专业：翻译

School of Foreign Languages　　Translation and Interpreting

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必　修 Required | 0301902 | 思想道德修养与法律基础 Morals & Ethics and Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必　修 Required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必　修 Required | 0100932 | 思政课社会实践 Guide to Community Engagement | 24 | 1.5 | 20 | | | 2 |
| | 必　修 Required | 0100733 | 马克思主义基本原理 Basic Principles of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必　修 Required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 Introduction to Maoism and Socialism with Chinese Characteristics | 56 | 3.5 | | | | 4 |
| | 必　修 Required | 0100741 | 形势与政策 Situation and Policy | 32 | 2 | 14 | | | 1-6 |
| | 必　修 Required | 0400111 | 大学体育（一） Physical Education (I) | 32 | 1 | | | | 1 |
| | 必　修 Required | 0400121 | 大学体育（二） Physical Education (I) | 32 | 1 | | | | 2 |
| | 必　修 Required | 0400131 | 大学体育（三） Physical Education (III) | 32 | 1 | | | | 3 |
| | 必　修 Required | 0400141 | 大学体育（四） Physical Education (IV) | 32 | 1 | | | | 4 |
| | 必　修 Required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | |
| | 必　修 Required | 070001a | 微积分（三） Calculus (III) | 64 | 4 | | | | 1 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必 修 Required | 0827791 | 计算机与程序设计基础(VB) Fundamental of Computer Programming (C++) | 48 | 3 | | | 8 | 1 |
| | 必 修 Required | 0510071 | 中国语文 Chinese | 32 | 2 | | | | 2 |
| | | | 自然科学公共选修课 Electives in Natural Sciences | 128 | 8 | | | | 1-8 |
| | 必 修 Required | 0508421 | 第二外国语（一） Second Foreign Language (I) | 64 | 4 | | | | 5 |
| | 必 修 Required | 0508431 | 第二外国语（二） Second Foreign Language (II) | 64 | 4 | | | | 6 |
| | 选 修 Elective | 0508441 | 第二外国语（三） Second Foreign Language (III) | 64 | 4 | | | | 7 |
| 学科大类基础课程 Discipline-related General Courses | 必 修 Required | 0511181 | 英语精读（一） Intensive English Reading (I) | 64 | 4 | | | | 1 |
| | 必 修 Required | 0511151 | 英语精读（二） Intensive English Reading (II) | 64 | 4 | | | | 2 |
| | 必 修 Required | 0511161 | 英语精读（三） Intensive English Reading (III) | 64 | 4 | | | | 3 |
| | 必 修 Required | 0508491 | 高级英语（一） Advanced English (I) | 64 | 4 | | | | 4 |
| | 必 修 Required | 0508511 | 高级英语（二） Advanced English (II) | 64 | 4 | | | | 5 |
| | 必 修 Required | 0509752 | 多文体阅读（一） Selected English Reading (I) | 24 | 1.5 | | | | 3 |
| | 必 修 Required | 0509762 | 多文体阅读（二） Selected English Reading (II) | 24 | 1.5 | | | | 4 |
| | 必 修 Required | 0508542 | 英语听力（一） English Listening (I) | 32 | 2 | | | | 1 |
| | 必 修 Required | 0508552 | 英语听力（二） English Listening (II) | 32 | 2 | | | | 2 |
| | 必 修 Required | 0508562 | 英语听力（三） English Listening (III) | 32 | 2 | | | | 3 |
| | 必 修 Required | 0508572 | 英语听力（四） English Listening (IV) | 32 | 2 | | | | 4 |
| | 必 修 Required | 0501982 | 英语语音 English Pronunciation | 32 | 2 | | | | 1 |
| | 必 修 Required | 0511321 | 英语日常会话（一） Oral English (I) | 24 | 1.5 | | | | 1 |
| | 必 修 Required | 0511332 | 英语日常会话（二） Oral English (II) | 24 | 1.5 | | | | 2 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 学科大类基础课程 Discipline-related General Courses | 必 修 Required | 0511191 | 英语演讲与辩论（一） Oral English (III) | 32 | 2 | | | | 3 |
| | 必 修 Required | 0511201 | 英语演讲与辩论（二） Oral English (IV) | 32 | 2 | | | | 4 |
| | 必 修 Required | 0509581 | 英语基础写作 English Writing (I) | 24 | 1.5 | | | | 2 |
| | 必 修 Required | 0509591 | 英语中级写作（一） English Writing (II) | 24 | 1.5 | | | | 3 |
| | 必 修 Required | 0509601 | 英语中级写作（二） English Writing (III) | 24 | 1.5 | | | | 4 |
| | 必 修 Required | 0509611 | 英语高级写作 English Writing (IV) | 24 | 1.5 | | | | 5 |
| | 必 修 Required | 0513411 | 英语国家社会与文化 Societies and Cultures of English Speaking Countries | 32 | 2 | | | | 2 |
| | 必 修 Required | 0511683 | 英汉语言对比 Comparative Studies of English and Chinese | 24 | 1.5 | | | | 3 |
| | 必 修 Required | 0513421 | 英语文学导论（一） English Literature | 32 | 2 | | | | 5 |
| | 必 修 Required | 0513431 | 英语文学导论（二） American Literature | 32 | 2 | | | | 6 |
| | 必 修 Required | 0513441 | 语言学导论 Introduction to Linguistics | 32 | 2 | | | | 5 |
| 专业核心课程 Major-specific Core Courses | 必 修 Required | 0511771 | 翻译概论 Introduction to Translation | 32 | 2 | | | | 3 |
| | 必 修 Required | 0503602 | 英汉翻译 English-Chinese Translation | 32 | 2 | | | | 4 |
| | 必 修 Required | 0508681 | 汉英翻译 Chinese-English Translation | 32 | 2 | | | | 5 |
| | 必 修 Required | 0504861 | 基础口译 Introduction to Interpreting | 32 | 2 | | | | 4 |
| | 必 修 Required | 0511734 | 交替传译 Consecutive Interpreting | 64 | 4 | | | | 5 |
| | | | 专业方向选修课程（需选修10门课程，修满20学分） 10 from the following modules (20 credits) | | | | | | |
| | | | 笔译类课程 Translation Module | | | | | | |
| | 选 修 Elective | 0512001 | 计算机辅助翻译 Computer Aided Translation | 32 | 2 | | | | 6 |
| | 选 修 Elective | 0511821 | 中国文化英译 Translating Chinese Culture | 32 | 2 | | | | 6 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业方向课程 Major-specific Electives | 选 修 Elective | 0503431 | 实用翻译 Practical Translation | 32 | 2 | | | | 6 |
| | 选 修 Elective | 0502421 | 科技翻译 Sci-Tech Translation | 32 | 2 | | | | 6 |
| | 选 修 Elective | 0511831 | 文学翻译 Literary Translation | 32 | 2 | | | | 7 |
| | 选 修 Elective | 0512841 | 商务翻译 Business Translation | 32 | 2 | | | | 7 |
| | 选 修 Elective | 0509792 | 翻译研究方法 Approaches to Translation Studies | 32 | 2 | | | | 7 |
| | | | 口译类课程 Interpreting Module | | | | | | |
| | 选 修 Elective | 0513531 | 联络口译 Liaison Interpreting | 32 | 2 | | | | 4 |
| | 选 修 Elective | 0511811 | 商务口译 Business Interpreting | 32 | 2 | | | | 5 |
| | 选 修 Elective | 0511741 | 专题口译 Subject-based Interpreting | 32 | 2 | | | | 6 |
| | 选 修 Elective | 0511711 | 视译 Sight Interpreting | 32 | 2 | | | | 6 |
| | 选 修 Elective | 0513541 | 口译证书培训 CATTI Training | 32 | 2 | | | | 6 |
| | 选 修 Elective | 0511751 | 同声传译 Simultaneous Interpreting | 32 | 2 | | | | 7 |
| | 选 修 Elective | 0513551 | 模拟会议口译赏析与实践 Mock Conference Interpreting | 32 | 2 | | | | 7 |
| | | | 语言文化类课程 Linguistics and Cultural Studies Module | | | | | | |
| | 选 修 Elective | 0503481 | 中国文化通论 Introduction to Chinese Culture | 32 | 2 | | | | 3 |
| | 选 修 Elective | 0512091 | 西方思想经典 Western Classic Readings | 32 | 2 | | | | 5 |
| | 选 修 Elective | 0502142 | 跨文化交际 Intercultural Communication | 32 | 2 | | | | 6 |
| | 选 修 Elective | 0502472 | 中西文化比较 Comparative Study of Chinese and Western Cultures | 32 | 2 | | | | 6 |
| | 选 修 Elective | 0500201 | 词汇学 Lexicology | 32 | 2 | | | | 3 |
| | 选 修 Elective | 0502131 | 文体学 Stylistics | 32 | 2 | | | | 6 |
| | 选 修 Elective | 0513521 | 句法学 Morphology | 32 | 2 | | | | 7 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 实践环节 Practicum | | | 工作坊类项目需修满3项，实践环节总共修满34学分<br>Required items + 3 workshops (34 credits) | | | | | | |
| | 必 修 Required | 1300013 | 军事训练<br>Military Training | 2w | 1 | | | | 1 |
| | 必 修 Required | 1300024 | 公益劳动<br>On-campus Voluntary Work | 1w | 0.5 | | | | 8 |
| | 必 修 Required | 1304281 | 专业导学<br>Freshman Orientation | 4w | 2 | | | | 1 |
| | 必 修 Required | 130044a | 科研训练<br>Research | 1w | 0.5 | | | | 6 |
| | 必 修 Required | 130007d | 专业实习<br>Internship Program | 4w | 2 | | | | 4-6 |
| | 必 修 Required | 130004a | 毕业设计（论文）<br>Under-graduate Thesis | 16w | 8 | | | | 8 |
| | 必 修 Required | 1306131 | 科技实践<br>Field Trip | 2w | 1 | | | | 2 |
| | 必 修 Required | 1306121 | 听力训练<br>English Listening Training | 4w | 2 | | | | 1-4 |
| | 必 修 Required | 1306141 | 学术英语写作<br>Academic English Writing | 2w | 1 | | | | 8 |
| | 必 修 Elective | 1304312 | 英语阅读工作坊<br>English Reading Workshop | 8w | 4 | | | | 1-4 |
| | 必 修 Required | 1304322 | 英语写作工作坊<br>English Writing Workshop | 8w | 4 | | | | 2-5 |
| | 选 修 Elective | 1304291 | 英语演讲与辩论工作坊<br>English Public Speaking and Debating Workshop | 4w | 2 | | | | 3-4 |
| | 选 修 Elective | 1304301 | 模联工作坊<br>MUN Workshop | 4w | 2 | | | | 2-3 |
| | 选 修 Elective | 1304331 | 英语笔译工作坊<br>Translation Workshop | 4w | 2 | | | | 5-6 |
| | 选 修 Elective | 1304341 | 英语口译工作坊<br>Interpreting Workshop | 4w | 2 | | | | 5-6 |

# 英语(国际商务)专业本科培养计划

# Undergraduate Program in English Language and Literature (International Business)

## 一、培养目标

### Ⅰ. Program Objectives

培养具有较强英语语言能力、了解英语语言文学文化等相关基础理论、掌握经济和管理相关基础理论和国际商务规则，有较强的国际商务运作能力，并具备一定相关研究能力的应用复合型专业人才。

The undergraduate program in English Language and Literature (International Business) is aimed at producing interdisciplinary students proficient in English, with a good commanding of English language, literature and culture, with a general knowledge of theories in economics, management and international business, capable of doing basic research in the areas of linguistics, literature and inter-cultural communication and in the areas of economics, management and international business.

## 二、基本规格要求

### Ⅱ. Learning Outcomes

1. 具备良好的思想道德、人文素养和职业素养；

2. 具有国际视野和跨文化交流与合作能力，较强的逻辑思辨能力和信息加工能力；

3. 了解中国和主要英语国家的历史、社会与文化，掌握科技、新闻、政治、经济、外贸、教育、文化等领域的基础知识；

4. 具有坚实的英语语言基础和较熟练的听、说、读、写、译的能力；

5. 对中外经济发展状况及其贸易政策和法规、对经济学、国际商务理论最新的发展动态有较广泛的了解；

6. 具备在科技、新闻、外事、经贸、教育、文化等部门从事相关工作的能力。

Upon successful completion of the program, students will be able to:

1. Demonstrate good moral character, broad knowledge in humanities and professional ethics;

2. Develop global mindset, cultural competence, sophisticated analytical thinking skills and information processing capacities;

3. Build up a good understanding of the history, society and culture of China and the most popular English-speaking countries, and a general understanding of the fundamentals of science and technology, journalism, politics, economics, foreign trade, education and culture;

4. Develop a sound grounding of English language in listening, speaking, reading, writing and translation;

5. Develop knowledge of the economic development, the business policy and regulations of both China and major foreign countries and areas, and of the latest theoretical development of economics and international business;

6. Be competent in offering services in various fields including science and technology, news media, foreign affairs, economics and trade, education and culture.

## 三、培养特色

### Ⅲ. Program Highlights

本专业培养特色可概括为国际化、复合型、应用型。本专业培养的人才具有国际化视野、英

语与其它专业复合型知识、并具有较强应用能力。大多数学生在读期间有海外学习和实习机会，大部分学生毕业后到海外或国内著名高校继续深造。

本专业师资力量雄厚，大部分教师具有博士学位，所有教师均具有海外学习或访学的经历。本专业建设有一门国家级精品资源共享课程，拥有多间设备精良的语言实验室和笔译、口译实验室等，能为人才培养提供优秀的教学条件。

The program highlights are summarized as internationalized, interdisciplinary andapplication-oriented. The students are supposed to have international vision with interdisciplinary knowledge structure and application skills. Most of the students have opportunities of overseas study or internship. Most students will pursue their studies at overseas or home universities after graduation.

The program has a strong faculty. Most teachers have a doctor's degree and all of them have the experience of studying or researching abroad. The program has a state-level Excellent Resource-sharing Course. The Department has well-equipped language labs and labs of translation and interpreting, which provides excellent teaching conditions for talents cultivation.

## 四、主干学科

## Ⅳ. Academic Disciplines

英语、经济学、管理学

English, Economics, Management

## 五、学制与学位

## Ⅴ. Program Length and Degree

修业年限：四年

Program Length: 4 years

授予学位：文学学士、管理学学士

Degrees Conferred: Bachelor of Arts, Bachelor of Management

## 六、学时与学分

## Ⅵ. CreditsHours and Units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：205.5 学分

Minimum curriculum credits (including courses and practicum): 205.5 credits

其中，专业基础课程、专业核心课程学分不允许用其他课程学分进行学分冲抵和替代。

Major-related basic courses and core courses cannot be covered using credits from other courses in the program.

完成学业最低课外学分要求：3 学分

Minimum Extracurricular Credits: 3 credits

1.课程体系学时与学分

Course Credits Hours and Units

| 课程类别 | | 课程性质 | 学时/学分 | 占课程体系学分比例（%） |
|---|---|---|---|---|
| 通识教育基础课程 | | 必修 | 688/43 | 24.50 |
| | | 选修 | 128/8 | 4.56 |
| 学科（专业）基础课程 | 学科大类基础课程 | 必修 | 992/62 | 35.33 |
| | 学科专业基础课程 | 必修 | 208/13 | 7.41 |
| 专业课程 | 专业核心课程 | 必修 | 376/23.5 | 13.40 |
| | 专业方向课程 | 选修 | 416/26 | 14.81 |
| 合计 | | | 2808/175.5 | 100 |

| Course Type | | Required /Elective | Hrs/Crs | Percentage (%) |
|---|---|---|---|---|
| General Education Core Curriculum | | Required | 688/43 | 24.50 |
| | | Elective | 128/8 | 4.56 |
| Discipline-related Courses | General | Required | 992/62 | 35.33 |
| | Basic Subdisciplinary | Required | 208/13 | 7.41 |
| Major-specific Courses | Core | Required | 376/23.5 | 13.40 |
| | Elective | Elective | 416/26 | 14.81 |
| Total | | | /175.5 | 100 |

2.集中性实践教学环节周数与学分

Practicum Credits

| 实践教学环节名称 | 课程性质 | 周数/学分 | 占实践教学环节学分比例（%） |
|---|---|---|---|
| 军事训练 | 必修 | 2/1 | 3.33 |
| 公益劳动 | 必修 | 1/0.5 | 1.67 |
| 专业导学 | 必修 | 4/2 | 6.67 |
| 科技实践 | 必修 | 2/1 | 3.33 |
| 科研训练 | 必修 | 1/0.5 | 1.67 |
| 听力训练 | 必修 | 4/2 | 6.67 |
| 学术英语写作 | 必修 | 2/1 | 3.33 |
| 专业实习 | 必修 | 4/2 | 6.67 |
| 英语演讲与辩论工作坊 | 选修 | 4/2 | 39.99 |
| 模联工作坊 | 选修 | 4/2 | |
| 英语阅读工作坊 | 选修 | 8/4 | |
| 英语写作工作坊 | 选修 | 8/4 | |
| 笔译工作坊 | 选修 | 4/2 | |
| 口译工作坊 | 选修 | 4/2 | |
| 毕业设计（论文） | 必修 | 16/8 | 26.67 |
| 合计 | | 60/30 | 100 |

| Course Title | Course Nature | Weeks/Credits | Percentage (%) |
|---|---|---|---|
| Military Training | Required | 2/1 | 3.33 |
| On-campus Voluntary Work | Required | 1/0.5 | 1.67 |
| Freshman Orientation | Required | 4/2 | 6.67 |
| Field Trip | Required | 2/1 | 3.33 |
| Research | Required | 1/0.5 | 1.67 |
| English Listening Training | Required | 4/2 | 6.67 |
| Academic English Writing | Required | 2/1 | 3.33 |
| Internship Program | Required | 4/2 | 6.67 |
| English Public Speaking and Debating Workshop | Elective | 4/2 | 39.99 |
| MUN Workshop | Elective | 4/2 | |
| English Reading Workshop | Elective | 8/4 | |
| English Writing Workshop | Elective | 8/4 | |
| Translation Workshop | Elective | 4/2 | |
| Interpreting Workshop | Elective | 4/2 | |
| Undergraduate Thesis | Required | 16/8 | 26.67 |
| Total | | 60/30 | 100 |

3.课外学分

Extracurricular Credits

| 序号 | 课外活动名称 | 课外活动和社会实践的要求 | | 课外学分 |
|---|---|---|---|---|
| 1 | 社会实践活动 | 提交社会调查报告，通过答辩者 | | 1 |
| | | 个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者 | | 2 |
| 2 | 外语及计算机考试 | 全国大学英语六级考试（英语、翻译专业过英语专业八级） | 获六级证书者（英语、翻译专业获英语专业八级证书） | 2 |
| | | 全国大学日语/法语/德语等四级考试 | 获四级证书者 | 2 |
| | | 托福考试 | 达 90 分以上者 | 3 |
| | | 雅思考试 | 达 6.5 分以上者 | 3 |
| | | GRE 考试 | 达 280 分以上者 | 3 |
| | | 全国计算机等级考试 | 获二级以上证书者 | 2 |
| | | 全国计算机软件资格、水平考试 | 获程序员证书者 | 2 |
| | | | 获高级程序员证书者 | 3 |
| | | | 获系统分析员证书者 | 4 |
| 3 | 竞赛 | 校级 | 获一等奖者 | 3 |
| | | | 获二等奖者 | 2 |
| | | | 获三等奖者 | 1 |
| | | 省级 | 获一等奖者 | 4 |
| | | | 获二等奖者 | 3 |
| | | | 获三等奖者 | 2 |
| | | 全国 | 获一等奖者 | 6 |
| | | | 获二等奖者 | 4 |
| | | | 获三等奖者 | 3 |
| 4 | 论文 | 在全国性刊物发表论文 | 每篇论文 | 2~3 |
| 5 | 科研 | 视参与科研项目时间与科研能力 | 每项 | 1~3 |
| 6 | 创新 | 视创新情况 | 每项 | 1~3 |

| No. | Activities | Requirements | | Extracurricular Credits |
|---|---|---|---|---|
| 1 | Community Engagement | Submitting a report and passing the oral defense | | 1 |
| | | Individuals awarded “Active Participant” / Teams awarded “Excellent Performance” by HUST or Hubei Youth League Committee | | 2 |
| 2 | Qualifications | CET-6 (For Non-English majors) / TEM - 8 (For English and Translation majors) | Certificate | 2 |
| | | CJT/TFU/PHSD - 4 | Certificate | 2 |
| | | TOEFL | Scoring 90 and above | 3 |
| | | IELTS | Scoring 6.5 and above | 3 |
| | | GRE | Scoring 280 and above | 3 |
| | | National Computer Rank Examination | Certificate (Grade 1 / 2) | 2 |
| | | Qualifications for Computer and Software Technology Proficiency | Programmer | 2 |
| | | | Senior Programmer | 3 |
| | | | System Analyst | 4 |
| 3 | Competitions | University Level | First Prize | 3 |
| | | | Second Prize | 2 |
| | | | Third Prize | 1 |
| | | Provincial Level | First Prize | 4 |
| | | | Second Prize | 3 |
| | | | Third Prize | 2 |
| | | National Level | First Prize | 6 |
| | | | Second Prize | 4 |
| | | | Third Prize | 3 |
| 4 | Academic Papers | Published in national-level journals | Each paper | 2-3 |
| 5 | Research Programs | Contribution and research capability | Each program | 1-3 |
| 6 | Innovation | Innovation capacity | Each program | 1-3 |

## 七、主要课程

## Ⅶ. Main Courses

英语精读 Intensive Reading、英语听力 English Listening、英语口语 Oral English、英语写作 English Writing、笔译 Translation、口译 Interpretation、英国文化概况 Introduction to British Culture、美国文化概况 Introduction to American Culture、英国历史 British History、美国历史 American History、管理学原理 The Principle of Management、经济学原理 The principle of Economics、中级微观经济学 Intermediate Microeconomics、中级宏观经济学 Intermediate Macroeconomics、计量经济学 Econometrics、货币银行学 Money and Banking。

## 八、主要实践教学环节（含专业实验）

## Ⅷ. Practicum Module (experiments included)

专业实习　Internship program

毕业论文　Undergraduate thesis

工作坊　Workshops

## 九、教学进程计划表

## Ⅸ. Course Schedule

院(系)：外国语学院　　专业：英语(国际商务)

School: School of Foreign Languages　　Major: English(International Business)

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必修 Required | 0301902 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 40 | 2.5 | 8 | | | 1 |
| | 必修 Required | 0100721 | 中国近现代史纲要 Survey of Modern Chinese History | 32 | 2 | 8 | | | 2 |
| | 必修 Required | 0100932 | 思政课社会实践 Social Practice of Ideological and Political Theories Course | 24 | 1.5 | 20 | | | 2 |
| | 必修 Required | 0100733 | 马克思主义原理 Basic Theory of Marxism | 40 | 2.5 | 8 | | | 3 |
| | 必修 Required | 0100322 | 毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics | 56 | 3.5 | 0 | | | 4 |
| | 必修 Required | 0100741 | 形势与政策 Current Affairs and Policy | 32 | 2 | 14 | | | 1-6 |
| | 必修 Required | 0400111 | 大学体育（一） Physical Education (I) | 32 | 1 | | | | 1 |
| | 必修 Required | 0400121 | 大学体育（二） Physical Education (II) | 32 | 1 | | | | 2 |
| | 必修 Required | 0400131 | 大学体育（三） Physical Education(III) | 32 | 1 | | | | 3 |
| | 必修 Required | 0400141 | 大学体育（四） Physical Education (IV) | 32 | 1 | | | | 4 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 通识教育基础课程 General Education Core Curriculum | 必修 Required | 1100011 | 军事理论 Military Theory | 16 | 1 | | | | 1 |
| | 必修 Required | 0700013 | 微积分（三） Calculus (III) | 80 | 5 | | | | 1 |
| | 必修 Required | 0700054 | 线性代数 Linear Algebra | 40 | 2.5 | | | | 2 |
| | 必修 Required | 0700063 | 概率论与数理统计(三) Probability and Mathematics Statistics(III) | 40 | 2.5 | | | | 3 |
| | 必修 Required | 0827781 | 计算机与程序设计基础(C++) C++ Programming | 48 | 3 | | | | 1 |
| | 必修 Required | 0833174 | 数据库技术及应用 Technology and Application of Database | 32 | 2 | | | | 2 |
| | 必修 Required | 0510071 | 中国语文 Chinese | 32 | 2 | | | | 2 |
| | | | 自然科学公共选修课 Electives in Natural Sciences | 128 | 8 | | | | 1-8 |
| | 必修 Required | 0508421 | 第二外国语（一） Second Foreign Language (I) | 64 | 4 | | | | 5 |
| | 必修 Required | 0508431 | 第二外国语（二） Second Foreign Language (II) | 64 | 4 | | | | 6 |
| | 选修 Elective | 0508441 | 第二外国语（三） Second Foreign Language (III) | 64 | 4 | | | | 7 |
| 学科大类基础课程 Discipline-related General Courses | 必修 Required | 0511181 | 英语精读（一） Intensive Reading (I) | 48 | 3 | | | | 1 |
| | 必修 Required | 0511151 | 英语精读（二） Intensive Reading (II) | 48 | 3 | | | | 2 |
| | 必修 Required | 0511161 | 英语精读（三） Intensive Reading (III) | 48 | 3 | | | | 3 |
| | 必修 Required | 0508491 | 高级英语（一） Advanced English (I) | 48 | 3 | | | | 4 |
| | 必修 Required | 0508511 | 高级英语（二） Advanced English (II) | 64 | 4 | | | | 5 |
| | 必修 Required | 0508521 | 英语语音 English Pronunciation | 32 | 2 | | | | 1 |
| | 必修 Required | 0508543 | 英语听力（一） English Listening (I) | 32 | 2 | | | | 1 |
| | 必修 Required | 0508553 | 英语听力（二） English Listening (II) | 32 | 2 | | | | 2 |
| | 必修 Required | 0508563 | 英语听力（三） English Listening (III) | 32 | 2 | | | | 3 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 学科大类基础课程 Discipline-related General Courses | 必修 Required | 0508573 | 英语听力（四） English Listening (IV) | 32 | 2 | | | | 4 |
| | 必修 Required | 0509581 | 英语基础写作 English Basic Writing | 16 | 1 | | | | 2 |
| | 必修 Required | 0509591 | 英语中级写作(一) English Intermediate Writing (I) | 16 | 1 | | | | 3 |
| | 必修 Required | 0509601 | 英语中级写作(二) English Intermediate Writing (II) | 16 | 1 | | | | 4 |
| | 必修 Required | 0509611 | 英语高级写作 English Advanced Writing | 16 | 1 | | | | 5 |
| | 必修 Required | 0511321 | 英语日常会话（一） Oral English (I) | 24 | 1.5 | | | | 1 |
| | 必修 Required | 0511331 | 英语日常会话（二） Oral English (II) | 24 | 1.5 | | | | 2 |
| | 必修 Required | 0511191 | 英语演讲与辩论（一） Oral English (III) | 24 | 1.5 | | | | 3 |
| | 必修 Required | 0511201 | 英语演讲与辩论（二） Oral English (IV) | 24 | 1.5 | | | | 4 |
| | 必修 Required | 1201811 | 管理学原理 The Principle of Management | 40 | 2.5 | | | | 1 |
| | 必修 Required | 0200194 | 经济学原理 The principle of Economics | 40 | 2.5 | | | | 1 |
| | 必修 Required | 0200642 | 中级微观经济学 Intermediate Microeconomics | 64 | 4 | | | | 2 |
| | 必修 Required | 0200652 | 中级宏观经济学 Intermediate Macroeconomics | 64 | 4 | | | | 3 |
| | 必修 Required | 0512341 | （国际）会计学 International Accounting | 56 | 3.5 | | | | 3 |
| | 必修 Required | 0700092 | 统计学 Statistics | 48 | 3 | | | | 4 |
| | 必修 Required | 0200091 | 计量经济学 Econometrics | 64 | 4 | | | | 4 |
| | 必修 Required | 0200232 | 货币银行学 Money and Banking | 40 | 2.5 | | | | 4 |
| 学科专业基础课程 | 必修 Required | 0508691 | 英美影视与文化（一） English Movies and Culture (I) | 16 | 1 | | | | 1 |
| | 必修 Required | 0508711 | 英美影视与文化（二） English Movies and Culture (II) | 16 | 1 | | | | 2 |
| | 必修 Required | 0513411 | 英语国家社会与文化 Societies and Cultures of English-Speaking Countries | 32 | 2 | | | | 2 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| Basic Subdisciplinary Courses | 必修 Required | 0545472 | 商务英语阅读 Business English Reading | 24 | 1.5 | | | | 4 |
| | 必修 Required | 0201141 | 国际商务 International Business | 40 | 2.5 | | | | 2 |
| | 必修 Required | 0200153 | 国际金融学 International Finance | 40 | 2.5 | | | | 5 |
| | 必修 Required | 0200142 | 国际贸易学 International Trade | 40 | 2.5 | | | | 5 |
| 专业核心课程 Major-specific Core Courses | 必修 Required | 0513421 | 英语文学导论(I) Introduction to English Literature (I) | 32 | 2 | | | | 5 |
| | 必修 Required | 0513431 | 英语文学导论(II) Introduction to English Literature (II) | 32 | 2 | | | | 6 |
| | 必修 Required | 0504901 | 语言学导论 Introduction to Linguistics | 32 | 2 | | | | 5 |
| | 必修 Required | 0502142 | 跨文化交际 Cross-Cultural Communication | 32 | 2 | | | | 6 |
| | 必修 Required | 0503602 | 英汉翻译 English-Chinese Translation | 16 | 1 | | | | 5 |
| | 必修 Required | 0508681 | 汉英翻译 Chinese-English Translation | 16 | 1 | | | | 6 |
| | 必修 Required | 0504861 | 基础口译 Fundamental Interpretation | 16 | 1 | | | | 5 |
| | 必修 Required | 0200322 | 国际贸易实务 International Trade Practice | 48 | 3 | | | | 5 |
| | 必修 Required | 1203921 | 国际企业管理学 International Enterprise Management | 40 | 2.5 | | | | 5 |
| | 必修 Required | 0200332 | 国际投资学 International Investments | 40 | 2.5 | | | | 5 |
| | 必修 Required | 1203931 | 国际市场营销学 International Marketing | 40 | 2.5 | | | | 6 |
| | 必修 Required | 0201162 | 国际商务谈判 International Business Negotiation | 32 | 2 | | | | 7 |
| | | | 专业方向选修课程（选任一方向，修满 14 学分，从其他三个方向中修满 12 学分,总共需修满 26 学分） Special-Oriented Electives(14 credits out of one module +12 creditsout of the other three modules)（26credits） | | | | | | |
| | | | 文学类课程 Literature Module | | | | | | |
| | 选修 Elective | 0513451 | 英语小说 English Fiction | 32 | 2 | | | | 5 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业方向课程 Major-specific Electives | 选修 Elective | 0513461 | 英语散文 English Prose | 32 | 2 | | | | 6 |
| | 选修 Elective | 0513501 | 英语诗歌 English Poetry | 32 | 2 | | | | 6 |
| | 选修 Elective | 0513471 | 英语戏剧 English Drama | 32 | 2 | | | | 7 |
| | 选修 Elective | 0506122 | 古希腊罗马神话 Ancient Greek and Roman Mythology | 32 | 2 | | | | 2 |
| | 选修 Elective | 0513481 | 比较文学 Comparative Literature | 32 | 2 | | | | 7 |
| | 选修 Elective | 0513491 | 文学原理 Literary Theory | 32 | 2 | | | | 5 |
| | | | 文化类课程 Culture Module | | | | | | |
| | 选修 Elective | 0510772 | 圣经与西方文化 The Bible and Western Culture | 32 | 2 | | | | 3 |
| | 选修 Elective | 0512101 | 英国历史 British History | 32 | 2 | | | | 3 |
| | 选修 Elective | 0512111 | 美国历史 American History | 32 | 2 | | | | 4 |
| | 选修 Elective | 0513511 | 西方文明史 A Short History of Western Civilization | 32 | 2 | | | | 4 |
| | 选修 Elective | 0512091 | 西方思想经典 Heritage of Western Civilization | 32 | 2 | | | | 5 |
| | 选修 Elective | 0503481 | 中国文化通论 Introduction to Chinese Culture | 32 | 2 | | | | 3 |
| | 选修 Elective | 0502472 | 中西文化比较 Comparative Studies of Chinese and Western Cultures | 32 | 2 | | | | 6 |
| | | | 翻译类课程 Translation Module | | | | | | |
| | 选修 Elective | 0511731 | 交替传译 Consecutive Interpretation | 32 | 2 | | | | 6 |
| | 选修 Elective | 0511811 | 商务口译 Business English Interpreting | 32 | 2 | | | | 5 |
| | 选修 Elective | 0502421 | 科技翻译 Sci-Tech Translation | 32 | 2 | | | | 6 |
| | 选修 Elective | 0503431 | 实用翻译 Practical Translation | 32 | 2 | | | | 7 |
| | 选修 Elective | 0512001 | 计算机辅助翻译 Computer-aided Translation | 32 | 2 | | | | 6 |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 专业方向课程 Major-specific Electives | 选修 Elective | 0511771 | 翻译概论 Introduction to Translation | 32 | 2 | | | | 5 |
| | 选修 Elective | 0511821 | 中国文化英译 Translating Chinese Culture | 32 | 2 | | | | 6 |
| | | | 语言学类课程 Linguistics Module | | | | | | |
| | 选修 Elective | 0500201 | 词汇学 Lexicology | 32 | 2 | | | | 3 |
| | 选修 Elective | 0502131 | 文体学 Stylistics | 32 | 2 | | | | 6 |
| | 选修 Elective | 0513521 | 句法学 Syntax | 32 | 2 | | | | 7 |
| | 选修 Elective | 0500162 | 语用学 Pragmatics | 32 | 2 | | | | 7 |
| | 选修 Elective | 0509691 | 语义学 Semantics | 32 | 2 | | | | 6 |
| | 选修 Elective | 0509701 | 语料库语言学 Corpus Linguistics | 32 | 2 | | | | 6 |
| | 选修 Elective | 0511683 | 英汉语言对比 Comparative Studies of English and Chinese | 32 | 2 | | | | 4 |
| 实践环节 practical training items | 必修 Required | 1300013 | 军事训练 Military Training | 2w | 1 | | | | 1 |
| | 必修 Required | 1300024 | 公益劳动 On-campus Voluntary Work | 1w | 0.5 | | | | 8 |
| | 必修 Required | 1304281 | 专业导学 Freshman Orientation | 4w | 2 | | | | 1 |
| | 必修 Required | 1306121 | 听力训练 English Listening Training | 4w | 2 | | | | 1-4 |
| | 必修 Required | 130044a | 科研训练 Research Training | 1w | 0.5 | | | | 6 |
| | 必修 Required | 130007d | 专业实习 Internship Program | 4w | 2 | | | | 4-6 |
| | 必修 Required | 1306131 | 科技实践 Field Trip | 2w | 1 | | | | 2 |
| | 必修 Required | 0545522 | 学术英语写作 | 2w | 1 | | | | 8 |
| | 必修 Required | 130004a | 毕业设计（论文） Undergraduate Thesis | 16w | 8 | | | | 8 |
| | | | 实践环节总共需修满 30 学分 Required items + Elective items (30 credits) | | | | | | |

续表

| 课程类别 course type | 课程性质 required/ elective | 课程代码 course code | 课程名称 course name | 学时 hrs | 学分 crs | 其中 Including | | | 设置学期 semester |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 课外 extra-cur. | 实验 exp. | 上机 operation | |
| 实践环节 practical training items | 选修 Elective | 1304291 | 英语演讲与辩论工作坊 English Public Speaking and Debating Workshop | 4w | 2 | | | | 3-4 |
| | 选修 Elective | 1304301 | 模联工作坊 MUN Workshop | 4w | 2 | | | | 2-3 |
| | 选修 Elective | 1304311 | 英语阅读工作坊 English Reading Workshop | 8w | 4 | | | | 1-4 |
| | 选修 Elective | 1304321 | 英语写作工作坊 English Writing Workshop | 8w | 4 | | | | 2-5 |
| | 选修 Elective | 1304331 | 英语笔译工作坊 Translation Workshop | 4w | 2 | | | | 5-6 |
| | 选修 Elective | 1304341 | 英语口译工作坊 Interpreting Workshop | 4w | 2 | | | | 5-6 |